

**Table 4**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| <b>MPS P-6</b> |         | Screened Interval: 15.5 to 20.5 feet bgs |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|----------------|---------|--|---------|---------|-------------|---------------|--------------|--------------------|-------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date  | VOCs    |  |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|                | Benzene | Carbon Tetrachloride                     | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:         | µg/l    | µg/l                                     | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 02/13/99       | <2.7    | NA                                       | 4.7     | <4.3    | <b>850</b>  | <7.9          | <3.2         | <3.6               | <3.5        | <4.3  | <2.7    | <3.0      | <3.7  | <b>810</b>     |  |
| 12/07/00       | <0.10   | NA                                       | 3.2     | <0.25   | <b>670</b>  | 3.6           | <0.25        | <0.25              | <0.25       | <0.25 | <0.10   | <0.25     | <0.25 | <b>530</b>     |  |
| 06/27/02       | <2.2    | <2.8                                     | <2.9    | <2.9    | <b>290</b>  | <3.0          | <2.5         | <3.0               | <7.0        | <2.5  | <3.2    | <2.9      | <3.7  | <b>290</b>     |  |
| 10/02/03       | <4.1    | <4.9                                     | <7.5    | <5.7    | <b>1000</b> | <8.9          | <5.4         | <4.3               | <7.4        | <4.5  | <6.7    | <9.0      | <4.5  | <b>880</b>     |  |
| 12/17/13       | <2.4    | <3.3                                     | <3      | <4      | <b>580</b>  | 5.4 J         | <5.5         | <5                 | <17         | <3.3  | <6.9    | <3.3      | <3.3  | <b>490</b>     |  |
| 06/26/14       | <2.4    | <3.3                                     | <3      | <4      | <b>590</b>  | 3.7 J         | <5.5         | <5                 | <17         | <3.3  | <6.9    | <3.3      | <3.3  | <b>460</b>     |  |
| 09/29/15       | <4.4    | <5.1                                     | <11     | <6.5    | <b>640</b>  | <5.4          | <7.1         | <13                | <16         | <4.9  | <4.4    | <8.4      | <4.7  | <b>410</b>     |  |
| 05/13/16       | <4.4    | <5.1                                     | <11     | <6.5    | <b>390</b>  | <5.4          | <7.1         | <13                | <16         | <4.9  | <4.4    | <8.4      | <4.7  | <b>320</b>     |  |
| 06/29/17       | <1.7    | <2.11                                    | <4.22   | <4.6    | <b>350</b>  | 15.5          | <2           | <9.4               | <21.7       | <4.8  | <6.7    | <3.5      | <4.5  | <b>299</b>     |  |
| 05/22/18       | <2.2    | <3.1                                     | <3.6    | <4.2    | <b>510</b>  | <3.4          | <2.6         | <13.2              | <21         | <3.8  | <1.9    | <3.3      | <3    | <b>470</b>     |  |
| 05/14/19       | <2.2    | <3.1                                     | <3.6    | <4.2    | <b>610</b>  | 5.3 J         | <2.6         | <13.2              | <21         | <3.8  | <1.9    | <3.3      | <3    | <b>620</b>     |  |
| 05/20/20       | <3.3    | <3.1                                     | <4.6    | <5      | <b>480</b>  | 7.1 J         | <3.2         | <13.2              | <11         | <3.3  | <2.6    | <3        | <4.7  | <b>480</b>     |  |
| 05/23/24       | 0.26 J  | <0.41                                    | 1.3     | <0.48   | <b>500</b>  | 2.0           | <0.20        | <3.6               | 0.53 JB     | <0.39 | <0.21   | <0.45     | <0.15 | <b>540</b>     |  |

**Table 4**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| <b>MPS P-7</b> |         | Screened Interval: 45 to 50 feet bgs |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|----------------|---------|--------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|-------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date  | VOCs    |                                      |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|                | Benzene | Carbon Tetrachloride                 | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:         | µg/l    | µg/l                                 | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 12/07/00       | <0.10   | NA                                   | <0.25   | <0.25   | 33          | <0.25         | <0.25        | <0.25              | 0.36        | <0.25 | 0.63    | <0.25     | <0.25 | 1,400          |  |
| 06/27/02       | <2.2    | <2.8                                 | <2.9    | <2.9    | 15          | <3.0          | <2.5         | <3.0               | <7.0        | <2.5  | <3.2    | <2.9      | <3.7  | 360            |  |
| 10/02/03       | <0.41   | <0.49                                | <0.75   | <0.57   | 1.2         | <0.89         | <0.54        | <0.43              | <0.74       | <0.45 | <0.67   | <0.90     | <0.48 | 64 / 73 *      |  |
| 12/17/13       | <0.24   | <0.33                                | <0.3    | <0.4    | 1.3         | <0.35         | <0.55        | <0.5               | <1.7        | <0.33 | <0.69   | <0.33     | <0.33 | 26.2           |  |
| 06/26/14       | <2.4    | <3.3                                 | <3      | <4      | 24.4        | <3.5          | <5.5         | <5                 | <17         | <3.3  | <6.9    | <3.3      | <3.3  | 490            |  |
| 09/29/15       | <4.4    | <5.1                                 | <11     | <6.5    | 24.8        | <5.4          | <7.1         | <13                | <16         | <4.9  | <4.4    | <8.4      | <4.7  | 380            |  |
| 05/13/16       | <0.44   | <0.51                                | <1.1    | <0.65   | 11.1        | <0.54         | <0.71        | <1.3               | <1.6        | <0.49 | <0.44   | <0.84     | <0.47 | <0.17          |  |
| 06/29/17       | <0.17   | <0.21                                | <0.42   | <0.46   | 2.9         | <0.35         | <0.2         | <0.94              | <2.17       | <0.48 | <0.67   | <0.35     | <0.45 | 11.7           |  |
| 05/22/18       | <0.22   | <0.31                                | <0.36   | <0.42   | 4.6         | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.42     | <0.3  | 36             |  |
| 05/14/19       | <0.22   | <0.31                                | <0.36   | <0.42   | 36          | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.33     | <0.3  | 520            |  |
| 05/20/20       | <3.3    | <3.1                                 | <4.6    | <5      | 99          | 4.8 J         | <3.2         | <13.2              | <11         | <3.3  | <2.6    | <3        | <4.7  | 670            |  |
| 05/23/24       | <0.18   | <0.41                                | <0.36   | <0.48   | <0.42       | <0.44         | <0.20        | <3.6               | 0.51 JB     | <0.39 | <0.21   | <0.45     | <0.15 | 4.1            |  |
| 5/23/2024(DUP) | <0.18   | <0.41                                | <0.36   | <0.48   | 2.5         | <0.44         | <0.20        | <3.6               | <0.44       | <0.39 | <0.21   | <0.45     | <0.15 | 20             |  |

| <b>PZ-11</b>  |         | Screened Interval: 44 to 49 feet bgs |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|---------------|---------|--------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|-------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date | VOCs    |                                      |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|               | Benzene | Carbon Tetrachloride                 | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:        | µg/l    | µg/l                                 | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 06/27/02      | <0.43   | <0.56                                | <0.57   | <0.57   | <0.53       | <0.59         | <0.49        | <0.6               | <1.4        | <0.49 | <0.63   | <0.57     | <0.73 | <0.12          |  |
| 10/02/03      | 8.9     | <0.49                                | <0.75   | <0.57   | <0.83       | <0.89         | <0.54        | <0.43              | <0.74       | <0.45 | <0.67   | <0.90     | <0.48 | <0.18          |  |
| 12/17/13      | <0.24   | <0.33                                | <0.3    | <0.4    | <0.38       | <0.35         | <0.55        | <0.5               | <1.7        | <0.33 | <0.69   | <0.33     | <0.33 | 0.31 J         |  |
| 06/27/14      | <0.24   | <0.33                                | <0.3    | <0.4    | <0.38       | <0.35         | <0.55        | <0.5               | <1.7        | <0.33 | <0.69   | <0.33     | <0.33 | <0.18          |  |
| 09/29/15      | <0.44   | <0.51                                | <1.1    | <0.65   | <0.45       | <0.54         | <0.71        | <1.3               | <1.6        | <0.49 | <0.44   | <0.84     | <0.47 | <0.17          |  |
| 05/11/16      | <0.44   | <0.51                                | <1.1    | <0.65   | <0.45       | <0.54         | <0.71        | <1.3               | <1.6        | <0.49 | <0.44   | <0.84     | <0.47 | <0.17          |  |
| 06/29/17      | <0.17   | <0.21                                | <0.42   | <0.46   | <0.41       | <0.35         | <0.2         | <0.94              | <2.17       | <0.48 | <0.67   | <0.35     | <0.45 | <0.19          |  |
| 05/22/18      | <0.22   | <0.31                                | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.33     | <0.3  | <0.20          |  |
| 05/15/19      | <0.22   | <0.31                                | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.33     | <0.3  | 0.44 J         |  |
| 05/20/20      | <0.33   | <0.31                                | <0.46   | <0.5    | <0.39       | <0.37         | <0.32        | <1.32              | <1.1        | <0.33 | <0.26   | <0.3      | <0.47 | 0.63 J         |  |
| 05/23/24      | <0.18   | <0.41                                | <0.36   | <0.48   | <0.42       | <0.44         | <0.20        | <3.6               | <0.44       | <0.39 | <0.21   | <0.45     | <0.15 | <0.47          |  |

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**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| <b>MW-11</b>  |         | Screened Interval: 5 to 20 feet bgs |         |         |             |               |              |                    |                |       |         |           |               |                |  |
|---------------|---------|-------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|----------------|-------|---------|-----------|---------------|----------------|--|
| Sampling Date | VOCs    |                                     |         |         |             |               |              |                    |                |       |         |           |               |                |  |
|               | Benzene | Carbon Tetrachloride                | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene    | PCE   | Toluene | 1,1,1-TCA | TCE           | Vinyl Chloride |  |
| Units:        | µg/l    | µg/l                                | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l           | µg/l  | µg/l    | µg/l      | µg/l          | µg/l           |  |
| 06/27/02      | <0.43   | <0.56                               | <0.57   | <0.57   | <0.53       | <0.59         | <0.49        | <0.6               | <1.4           | <0.49 | <0.63   | <0.57     | <0.73         | <0.12          |  |
| 10/02/03      | <0.41   | <0.49                               | <0.75   | <0.57   | <0.83       | <0.89         | <0.54        | <0.43              | <0.74          | <0.45 | <0.67   | <0.90     | <0.48         | <0.18          |  |
| 12/17/13      | <0.24   | <0.33                               | <0.3    | <0.4    | <0.38       | <0.35         | <0.55        | <0.5               | <1.7           | <0.33 | <0.69   | <0.33     | <0.33         | <0.18          |  |
| 06/27/14      | <0.24   | <0.33                               | <0.3    | <0.4    | <0.38       | <0.35         | <0.55        | <0.5               | <1.7           | <0.33 | <0.69   | <0.33     | <0.33         | <b>0.73</b>    |  |
| 09/29/15      | <0.40   | <0.51                               | <1.1    | <0.65   | <0.45       | <0.54         | <0.71        | <1.3               | <1.6           | <0.49 | <0.44   | <0.84     | <0.47         | <0.17          |  |
| 05/11/16      | <0.44   | <0.51                               | <1.1    | <0.65   | <0.45       | <0.54         | <0.71        | <1.3               | <1.6           | <0.49 | <0.44   | <0.84     | <b>0.48 J</b> | <0.17          |  |
| 06/29/17      | <0.17   | <0.21                               | <0.42   | <0.46   | <0.41       | <0.35         | <0.2         | <0.94              | <2.17          | <0.48 | <0.67   | <0.35     | <0.45         | <0.19          |  |
| 05/22/18      | <0.22   | <0.31                               | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1           | <0.38 | <0.19   | <0.33     | <0.3          | <0.2           |  |
| 05/15/19      | <0.22   | <0.31                               | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1           | <0.38 | <0.19   | <0.33     | <0.3          | <0.2           |  |
| 05/20/20      | <0.33   | <0.31                               | <0.46   | <0.5    | <0.39       | <0.37         | <0.32        | <1.32              | <1.1           | <0.33 | <0.26   | <0.3      | <0.47         | <0.2           |  |
| 05/23/24      | <0.18   | <0.41                               | <0.36   | <0.48   | <0.42       | <0.44         | <0.20        | <3.6               | <b>0.52 JB</b> | <0.39 | <0.21   | <0.45     | <0.15         | <0.47          |  |

| <b>PZ-12</b>  |               | Screened Interval: 38 to 43 feet bgs |         |         |             |               |              |                    |                |       |         |           |       |                |  |
|---------------|---------------|--------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|----------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date | VOCs          |                                      |         |         |             |               |              |                    |                |       |         |           |       |                |  |
|               | Benzene       | Carbon Tetrachloride                 | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene    | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:        | µg/l          | µg/l                                 | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l           | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 12/28/17      | <1.0          | <1.0                                 | 0.61 J  | <0.82   | <b>114</b>  | 0.89 J        | <1.0         | <0.47              | <5.0           | <1.0  | <1.0    | <1.0      | <0.66 | <b>9.9</b>     |  |
| 05/22/18      | <0.22         | <0.31                                | 0.41 J  | <0.42   | <b>58</b>   | 0.44 J        | <0.26        | <1.32              | <2.1           | <0.38 | 0.32 J  | <0.33     | <0.3  | <b>2.47</b>    |  |
| 05/15/19      | 0.22 J        | <0.31                                | 0.98 J  | <0.42   | <b>129</b>  | 1.06 J        | <0.26        | <1.32              | <2.1           | <0.38 | 0.51 J  | <0.33     | <0.3  | <b>9.8</b>     |  |
| 05/21/20      | <b>0.60 J</b> | <0.31                                | 1.19 J  | <0.5    | <b>161</b>  | 1.58          | <0.32        | <1.32              | <1.1           | <0.33 | 0.26 J  | <0.3      | <0.47 | <b>27.7</b>    |  |
| 05/23/24      | <0.18         | <0.41                                | <0.36   | <0.33   | <b>20</b>   | <0.44         | <0.20        | <3.6               | <b>0.50 JB</b> | <0.39 | <0.21   | <0.45     | <0.15 | <b>4.2</b>     |  |

**Table 4**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| <b>MW-12</b>  |         | Screened Interval: 5 to 20 feet bgs |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|---------------|---------|-------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|-------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date | VOCs    |                                     |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|               | Benzene | Carbon Tetrachloride                | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:        | µg/l    | µg/l                                | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 12/28/17      | <0.50   | <0.5                                | <0.24   | <0.41   | 14.1        | <0.26         | <0.5         | <0.23              | <2.5        | <0.50 | <0.50   | <0.5      | <0.33 | 1.1            |  |
| 05/22/18      | <0.22   | <0.31                               | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.33     | <0.3  | <0.2           |  |
| 05/15/19      | <0.22   | <0.31                               | <0.36   | <0.42   | <0.37       | <0.34         | <0.26        | <1.32              | <2.1        | <0.38 | 0.35 J  | <0.33     | <0.3  | <0.2           |  |
| 05/20/20      | <0.33   | <0.31                               | <0.46   | <0.5    | <0.39       | <0.37         | <0.32        | <1.32              | <1.1        | <0.33 | 0.38 J  | <0.3      | <0.47 | <0.2           |  |
| 05/23/24      | <0.18   | <0.41                               | <0.36   | <0.48   | <0.42       | <0.44         | <0.20        | <3.6               | 0.51 JB     | <0.39 | <0.21   | <0.45     | <0.15 | <0.47          |  |

| <b>PZ-13</b>   |         | Screened Interval: 44 to 49 feet bgs |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|----------------|---------|--------------------------------------|---------|---------|-------------|---------------|--------------|--------------------|-------------|-------|---------|-----------|-------|----------------|--|
| Sampling Date  | VOCs    |                                      |         |         |             |               |              |                    |             |       |         |           |       |                |  |
|                | Benzene | Carbon Tetrachloride                 | 1,1-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE   | Toluene | 1,1,1-TCA | TCE   | Vinyl Chloride |  |
| Units:         | µg/l    | µg/l                                 | µg/l    | µg/l    | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l  | µg/l    | µg/l      | µg/l  | µg/l           |  |
| 12/28/17       | <0.50   | <0.50                                | 0.41 J  | <0.41   | 106         | 0.95 J        | <0.50        | 0.40 J             | <2.5        | <0.50 | <0.50   | <0.50     | <0.33 | 96.7           |  |
| 12/28/18 (DUP) | <0.50   | <0.50                                | 0.41 J  | <0.41   | 104         | 0.90 J        | <0.50        | 0.37 J             | <2.5        | <0.50 | <0.50   | <0.50     | <0.33 | 95.7           |  |
| 05/22/18       | <0.22   | <0.31                                | <0.36   | <0.42   | 85          | 0.75 J        | <0.26        | <1.32              | <2.1        | <0.38 | <0.19   | <0.50     | <0.3  | 40             |  |
| 05/15/19       | 0.24 J  | <0.31                                | <0.36   | <0.42   | 119         | 0.96 J        | <0.26        | <1.32              | <2.1        | <0.38 | 0.53 J  | <0.33     | <0.3  | 90             |  |
| 05/20/20       | <0.33   | <0.31                                | <0.46   | <0.5    | 113         | 1.01 J        | <0.32        | <1.32              | <1.1        | <0.33 | <0.26   | <0.3      | <0.47 | 80             |  |
| 05/23/24       | <0.18   | <0.41                                | <0.36   | <0.48   | 88          | <0.44         | <0.20        | <3.6               | 0.50 JB     | <0.39 | <0.21   | <0.45     | <0.15 | 53             |  |

**Table 4**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| MW-13             | Screened Interval: 5 to 20 feet bgs |                      |            |            |             |               |              |                    |             |            |            |            |            |                |
|-------------------|-------------------------------------|----------------------|------------|------------|-------------|---------------|--------------|--------------------|-------------|------------|------------|------------|------------|----------------|
| Sampling Date     | VOCs                                |                      |            |            |             |               |              |                    |             |            |            |            |            |                |
|                   | Benzene                             | Carbon Tetrachloride | 1,1-DCA    | 1,1-DCE    | cis-1,2-DCE | trans-1,2-DCE | Ethylbenzene | Methylene Chloride | Naphthalene | PCE        | Toluene    | 1,1,1-TCA  | TCE        | Vinyl Chloride |
| Units:            | µg/l                                | µg/l                 | µg/l       | µg/l       | µg/l        | µg/l          | µg/l         | µg/l               | µg/l        | µg/l       | µg/l       | µg/l       | µg/l       | µg/l           |
| 12/28/17          | <0.50                               | <0.50                | 0.51 J     | <0.41      | <b>111</b>  | 4.5           | <0.50        | <0.23              | <2.5        | <0.50      | <0.50      | <2.1       | <0.33      | <b>0.21 J</b>  |
| 05/22/18          | <0.22                               | <0.31                | 0.37 J     | <0.42      | <b>132</b>  | 3.8           | <0.26        | <1.32              | <2.1        | <0.38      | <0.19      | 0.46 J     | <0.42      | <0.2           |
| 05/15/19          | <0.22                               | <0.31                | <0.36      | <0.42      | <b>98</b>   | 3.8           | <0.26        | <1.32              | <2.1        | <0.38      | <0.19      | 0.51 J     | <0.3       | <b>0.5 J</b>   |
| 05/20/20          | <0.33                               | <0.31                | <0.46      | <0.5       | <b>101</b>  | 6             | <0.32        | <1.32              | <1.1        | <0.33      | <0.26      | 0.41 J     | <0.47      | <b>10.6</b>    |
| 08/21/20          | <0.33                               | <0.31                | <0.39      | <0.46      | <b>116</b>  | 4.0           | <0.32        | <1.32              | <1.1        | <0.33      | <0.26      | 0.31 J     | <0.47      | <b>17.2</b>    |
| 8/21/20 (DUP)     | <0.33                               | <0.31                | <0.39      | <0.46      | <b>122</b>  | 3.8           | <0.32        | <1.32              | <1.1        | <0.33      | <0.26      | 0.32 J     | <0.47      | <b>17.1</b>    |
| 05/23/24          | <0.18                               | <0.41                | 0.49 J     | <0.48      | <b>150</b>  | 3.6           | <0.20        | <3.6               | 0.52 JB     | <0.39      | <0.21      | <0.45      | <0.15      | <b>15</b>      |
| <b>NR 140 ES</b>  | <b>5</b>                            | <b>5</b>             | <b>850</b> | <b>7</b>   | <b>70</b>   | <b>100</b>    | <b>700</b>   | <b>5</b>           | <b>100</b>  | <b>5</b>   | <b>800</b> | <b>200</b> | <b>5</b>   | <b>0.2</b>     |
| <b>NR 140 PAL</b> | <b>0.5</b>                          | <b>0.5</b>           | <b>85</b>  | <b>0.7</b> | <b>7</b>    | <b>20</b>     | <b>140</b>   | <b>0.5</b>         | <b>10</b>   | <b>0.5</b> | <b>160</b> | <b>40</b>  | <b>0.5</b> | <b>0.02</b>    |

**Notes:**

1. NR 140 ES = Wis. Adm. Code Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wis. Adm. Code Chapter NR 140 Preventive Action Limit
3. ES Exceedances: **BOLD**  
 PAL Exceedances: **BOLD**
4. NS = no standard
- \* Second value represents duplicate sample result.

5. Abbreviations:

- |                                    |  |
|------------------------------------|--|
| ND = Not Detected                  | NS = Not Sampled                       |
| 1,1-DCA = 1,1-Dichloroethane       | 1,1-DCE = 1,1-Dichloroethene           |
| cis-1,2-DCE = cis-1,2-Dichloethene | trans-1,2-DCE = trans-1,2-Dichloethene |
| TCE = Trichlorethene               | PCE = Tetrachloroethene                |
| 1,1,1-TCA = 1,1,1-Trichlorethane   |  |

**Table 6**  
**Groundwater Analytical Results**  
**Emerging Contaminant Sampling**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

| Well Location:   | W-MW-4S | MW-6                 |             | MW-22            | W-MW-10          |             | W-MW-11          |            |             |              | NR 140 ES <sup>1</sup> | NR 140 PAL <sup>2</sup> | WDHS ES <sup>3</sup> | WDHS PAL <sup>4</sup> |        |
|--|---------|----------------------|-------------|------------------|------------------|-------------|------------------|------------|-------------|--------------|------------------------|-------------------------|----------------------|-----------------------|--------|
| Date:  | 5/23/24 | 2/22/23              | 5/23/24     | 2/22/23          | 2/22/23          | 5/23/24     | 2/22/23          | 2/22/23    | 5/23/24     | 5/23/24      |                        |                         |                      |                       |        |
| Screen Interval (feet bgs):                                      |         | 15.3 to 20.3         |             | 15.9 to 25.9     | 23.3 to 28.3     |             | 20.6 to 25.6     |            |             |              |                        |                         |                      |                       |        |
| Screen Interval (feet MSL):                                      |         | 686.30 to 681.30     |             | 690.77 to 680.77 | 683.29 to 678.29 |             | 682.44 to 677.44 |            |             |              |                        |                         |                      |                       |        |
| Aquifer Zone:  |         | Shallow Perched Zone |             | Mid-depth Zone   | Mid-depth Zone   |             | Mid-depth Zone   |            |             |              |                        |                         |                      |                       |        |
| Water Elevation* (feet MSL):                                     | 683.88  | 684.08               | 685.44      | 683.33           | 683.33*          | 684.07      | 683.29           | DUPLICATE  | 683.84      | DUPLICATE    |                        |                         |                      |                       |        |
| <b>SVOCS</b>   |         |                      |             |                  |                  |             |                  |            |             |              |                        |                         |                      |                       |        |
| 1,4-Dioxane  | ug/L    | NA                   | <b>0.28</b> | NA               | <b>3.4</b>       | <b>1.1</b>  | NA               | <b>1.2</b> | NA          | NA           | NA                     | 3                       | 0.3                  | NS                    | NS     |
| <b>PFAS</b>  |         |                      |             |                  |                  |             |                  |            |             |              |                        |                         |                      |                       |        |
| 11-chloroicosafauro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ng/L    | <0.28                | <0.31       | <0.29            | <0.30            | <0.30       | <0.27            | <0.31      | <0.30       | <0.27        | <0.28                  | NS                      | NS                   | NS                    | NS     |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA)                       | ng/L    | <0.35                | <0.39       | <0.36            | <0.38            | <0.38       | <0.34            | <0.38      | <0.37       | <0.34        | <0.35                  | NS                      | NS                   | 3,000                 | 600    |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA)                       | ng/L    | <0.21                | <0.23       | <0.21            | <0.23            | <0.23       | <0.20            | <0.23      | <0.22       | <0.20        | <0.21                  | NS                      | NS                   | NS                    | NS     |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA)                       | ng/L    | <2.2                 | <2.4        | <2.2             | <2.4             | <2.4        | <2.1             | <2.4       | <2.3        | <2.1         | <2.2                   | NS                      | NS                   | NS                    | NS     |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA)                       | ng/L    | <0.40                | <0.45       | <0.41            | <0.44            | <0.44       | <0.39            | <0.44      | <0.43       | <0.39        | <0.41                  | NS                      | NS                   | NS                    | NS     |
| 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)  | ng/L    | <0.21                | <0.23       | <0.21            | <0.23            | <0.23       | <0.20            | <0.23      | <0.22       | <0.20        | <0.21                  | NS                      | NS                   | NS                    | NS     |
| Hexafluoropropylene oxide dimer acid (GenX, HPFO-DA)             | ng/L    | <1.3                 | <1.5        | <1.3             | <1.4             | <1.4        | <1.3             | <1.4       | <1.4        | <1.3         | <1.3                   | NS                      | NS                   | 300                   | 30     |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)                    | ng/L    | <0.75                | <0.85       | <0.78            | <0.82            | <0.82       | <0.74            | <0.83      | <0.81       | <0.74        | <0.77                  | NS                      | NS                   | 20                    | 2      |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)        | ng/L    | <1.1                 | <1.3        | <1.2             | <1.2             | <1.2        | <1.1             | <1.2       | <1.2        | <1.1         | <1.2                   | NS                      | NS                   | 20                    | 2      |
| N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)             | ng/L    | <0.74                | <0.83       | <0.76            | <0.81            | <0.80       | <0.72            | <0.82      | <0.79       | <0.72        | <0.75                  | NS                      | NS                   | 20                    | 2      |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA)                   | ng/L    | <0.37                | <0.42       | <0.38            | <0.41            | <0.41       | <0.36            | <0.41      | <0.40       | <0.37        | <0.38                  | NS                      | NS                   | NS                    | NS     |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)       | ng/L    | <1.0                 | <1.2        | <1.1             | <1.1             | <1.1        | <1.0             | <1.2       | <1.1        | <1.0         | <1.1                   | NS                      | NS                   | NS                    | NS     |
| N-Methyl perfluorooctane sulfonamidoethanol (NMeFOSE)            | ng/L    | <1.2                 | <1.4        | <1.3             | <1.3             | <1.3        | <1.2             | <1.3       | <1.3        | <1.2         | <1.2                   | NS                      | NS                   | NS                    | NS     |
| Perfluorobutanesulfonic acid (PFBS)                              | ng/L    | 1.8                  | 3.0         | 2.6              | 13               | 8.1         | 15               | 4.8        | 4.3         | <0.17        | <0.18                  | NS                      | NS                   | 450,000               | 90,000 |
| Perfluorobutanoic acid (PFBA)                                    | ng/L    | 6.0                  | 10          | 7.5              | 12               | 11          | 6.0              | 9.2        | 8.4         | 8.1          | 7.2                    | NS                      | NS                   | 10,000                | 2,000  |
| Perfluorodecanesulfonic acid (PFDS)                              | ng/L    | <0.28                | <0.31       | <0.29            | <0.30            | <0.30       | <0.27            | <0.31      | <0.30       | <0.27        | <0.28                  | NS                      | NS                   | NS                    | NS     |
| Perfluorodecanoic acid (PFDA)                                    | ng/L    | <0.27                | <0.30       | <0.28            | <0.29            | <0.29       | <0.26            | <0.30      | <0.29       | <0.26        | <0.27                  | NS                      | NS                   | 300                   | 60     |
| Perfluorododecanesulfonic acid (PFDoS)                           | ng/L    | <0.84                | <0.95       | <0.87            | <0.92            | <0.92       | <0.82            | <0.93      | <0.90       | <0.83        | <0.86                  | NS                      | NS                   | NS                    | NS     |
| Perfluorododecanoic acid (PFDoA)                                 | ng/L    | <0.48                | <0.54       | <0.49            | <0.52            | <0.52       | <0.47            | <0.53      | <0.51       | <0.47        | <0.49                  | NS                      | NS                   | 500                   | 100    |
| Perfluoroheptanesulfonic acid (PFHpS)                            | ng/L    | 0.31 J               | <0.19       | <0.17            | <0.18            | <0.18       | <0.16            | <0.18      | 0.19 J      | <0.16        | <0.17                  | NS                      | NS                   | NS                    | NS     |
| Perfluoroheptanoic acid (PFHpA)                                  | ng/L    | 2.2                  | 3.0         | 2.1              | 3.6              | 2.5         | 0.81 J           | 1.8 J      | 1.6 J       | 1.5 J        | 1.1 J                  | NS                      | NS                   | NS                    | NS     |
| Perfluorohexanesulfonic acid (PFHxS)                             | ng/L    | <b>8.8</b>           | 3.3 I       | <b>4.2 I</b>     | <b>4.2</b>       | 2.5         | <b>4.4 I</b>     | 1.9        | 2.1         | <b>4.3 I</b> | 3.5 I                  | NS                      | NS                   | 40                    | 4      |
| Perfluorohexanoic acid (PFHxA)                                   | ng/L    | 3.8                  | 3.5         | 2.3              | 5.7              | 4.4         | 1.1 J            | 3.6        | 3.4         | <0.49        | 2.4                    | NS                      | NS                   | 150,000               | 30,000 |
| Perfluorononanesulfonic acid (PFNS)                              | ng/L    | <0.32                | <0.36       | <0.33            | <0.35            | <0.35       | <0.31            | <0.35      | <0.34       | <0.31        | <0.33                  | NS                      | NS                   | NS                    | NS     |
| Perfluorononanoic acid (PFNA)                                    | ng/L    | 0.59 J               | 0.40 J I    | 0.32 J           | <0.26            | <0.26       | <0.23            | <0.26      | <0.25       | <0.23        | <0.24                  | NS                      | NS                   | 30                    | 3      |
| Perfluorooctane sulfonamide (FOSA)                               | ng/L    | <0.85                | <0.96       | <0.88            | <0.93            | <0.93       | <0.83            | <0.94      | <0.91       | <0.83        | <0.87                  | NS                      | NS                   | 20                    | 2      |
| Perfluorooctanesulfonic acid (PFOS)                              | ng/L    | <b>7.8</b>           | <b>3.5</b>  | <b>4.7</b>       | <0.51            | 0.91 J      | <b>2.2 I</b>     | <0.52      | 0.71 J      | <0.46        | <0.48                  | NS                      | NS                   | 20                    | 2      |
| Perfluorooctanoic acid (PFOA)                                    | ng/L    | <b>9.6</b>           | <b>12</b>   | <b>14</b>        | <b>5.5</b>       | <b>4.3</b>  | <b>2.4</b>       | <b>3.6</b> | <b>3.2</b>  | <b>3.8</b>   | <b>4.5</b>             | NS                      | NS                   | 20                    | 2      |
| Perfluoropentanesulfonic acid (PFPeS)                            | ng/L    | 1.3 J                | 1.8 J       | 1.3 J I          | 0.75 J           | 0.51 J      | <0.25            | 1.2 J      | <0.28       | <0.26        | <0.27                  | NS                      | NS                   | NS                    | NS     |
| Perfluoropentanoic acid (PFPeA)                                  | ng/L    | 6.2                  | <0.48       | <0.44            | 9.6              | 6.4         | 1.1 J            | 6.7        | 6.6         | 2.8          | 4.0                    | NS                      | NS                   | NS                    | NS     |
| Perfluorotetradecanoic acid (PFTA)                               | ng/L    | <0.63                | <0.71       | <0.65            | <0.69            | <0.69       | <0.62            | <0.70      | <0.68       | <0.62        | <0.65                  | NS                      | NS                   | 10,000                | 2,000  |
| Perfluorotridecanoic acid (PFTTrDA)                              | ng/L    | <1.1                 | <1.3        | <1.2             | <1.2             | <1.2        | <1.1             | <1.2       | <1.2        | <1.1         | <1.2                   | NS                      | NS                   | NS                    | NS     |
| Perfluoroundecanoic acid (PFUnA)                                 | ng/L    | <0.95                | <1.1        | <0.98            | <1.0             | <1.0        | <0.93            | <1.1       | <1.0        | <0.94        | <0.97                  | NS                      | NS                   | 3,000                 | 600    |
| Sum of FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA          | ng/L    | <b>17.4</b>          | <b>15.5</b> | <b>18.7</b>      | <b>5.5</b>       | <b>5.21</b> | <b>4.6</b>       | <b>3.6</b> | <b>3.91</b> | <b>3.8</b>   | <b>4.5</b>             | NS                      | NS                   | 20                    | 2      |

Notes:

- NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
- NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
- DHS ES = Groundwater Enforcement Standard recommendation (by Wisconsin Department of Health Services; Cycle 10 in June 2019 or Cycle 11 in November 2020)
- DHS PAL = Groundwater Preventative Action Limit recommendation (by Wisconsin Department of Health Services; Cycle 10 in June 2019 or Cycle 11 in November 2020)
- NS = no standard; NA = not analyzed
- ug/L = micrograms per liter (equivalent to parts per billion, ppb).
- ng/L = nanograms per liter (equivalent to parts per trillion, ppt)
- Laboratory flags:
  - "J" = Analyte detected between Limit of Detection and Limit of Quantitation.
  - "I" = Value is EMPC (estimated maximum possible concentration)
- Trip blank results: 5/23/24: All PFAS reported below laboratory detection limits.
- Equipment blank results: 5/23/24: All PFAS and 1,4-dioxane reported below laboratory detection limits.
- Exceedances of WDNR Standards:
  - BOLD** = Concentration exceeds NR 140 ES
  - ITALICS** = Concentration exceeds NR 140 PAL
- Exceedances of Recommended DHS Guidelines for PFAS:
  - BOLD** = Concentration exceeds the recommended DHS ES
  - ITALICS** = Concentration exceeds the recommended DHS PAL
- Special notes:
  - \* = monitoring well screen submerged below water table

Data entered / updated by: KAL Date: 6/17/24  
Data checked by: GSZ Date: 6/18/24

**Table 7**  
**Indoor Air Analytical Results - Middle School**  
**Whitefish Bay Landfill: Daniel Webster Secondary School - 6850 N. 53rd Street, Milwaukee, Wisconsin**  
**Sigma Project No. # 14411**

| Sample Type:<br>Sample Identification:            | Indoor Air Samples - 1st Round |         |         |         |         |         |         |         |         |         |         |         | VAL for Residential Indoor Air <sup>2</sup> | VAL for Small Commercial Indoor Air <sup>3</sup> | VAL for Large Commercial/Industrial Indoor Air <sup>4</sup> |         |         |         |         |
|---|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--|---|---------|---------|---------|---------|
|   | MPS-1                          | MPS-2   | MPS-3   | MPS-4   | MPS-5   | MPS-6   | MPS-7   | MPS-9   | MPS-11  | MPS-12  | MPS-13  |         |   |  |   |         |         |         |         |
|   | 7/10/00                        | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 |   |  |   |         |         |         |         |
| Date:   | 7/10/00                        | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00                                     | 7/10/00  | 7/10/00   | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 |
| Duration:   | 85 min.                        | 79 min. | 79 min. | 83 min. | 76 min. | 83 min. | 82 min. | 66 min. | 78 min. | 79 min. | 75 min. |         |   |  |   |         |         |         |         |
| Collection Device                                 | Summa                          | Summa   | Summa   | Summa   | Summa   | Summa   | Summa   | Summa   | Summa   | Summa   | Summa   |         |   |  |   |         |         |         |         |
| Petroleum and Chlorinated VOCs (EPA Method TO-14) |                                |         |         |         |         |         |         |         |         |         |         |         |   |  |   |         |         |         |         |
| Benzene   | 0.96                           | <0.53   | 1.2     | 1       | 1.5     | 1.3     | 2.2     | 2.2     | 2.2     | 1.8     |         |         |   | 3.6  | 16  | 16      |         |         |         |
| Benzyl Chloride                                   | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | 0.57   | 2.5   | 2.5     |         |         |         |
| Bromodichloromethane                              | <5.3                           | <5.6    | <5.4    | <5.6    | <5.7    | <5.6    | <5.6    | <5.4    | <5.6    | <5.7    | <5.6    | <5.6    | <5.6  | 0.76   | 3.3   | 3.3     |         |         |         |
| n-Butylbenzene                                    | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | NS   | NS  | NS      |         |         |         |
| sec-Butylbenzene                                  | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | NS   | NS  | NS      |         |         |         |
| Carbon Tetrachloride                              | <0.99                          | <1      | <1      | <1      | <1.1    | <1      | <1      | <1      | <1      | <1.1    | <1      | <1      | <1  | 4.7  | 20  | 20      |         |         |         |
| Chlorobenzene                                     | <0.72                          | <0.77   | <0.74   | <0.77   | <0.79   | <0.77   | <0.77   | <0.74   | <0.77   | <0.79   | <0.77   | <0.77   | <0.77                                       | 52   | 220   | 220     |         |         |         |
| Chloroethane                                      | <0.42                          | <0.44   | <0.42   | <0.44   | <0.45   | <0.44   | <0.44   | 0.43    | <0.44   | <0.45   | <0.44   | <0.44   | <0.44                                       | 4,200  | 18,000  | 18,000  |         |         |         |
| Chloroform  | <0.77                          | <0.8    | <0.78   | <0.81   | <0.83   | <0.81   | <0.81   | <0.78   | <0.81   | <0.83   | <0.81   | <0.81   | <0.81                                       | 1.2  | 5.3   | 5.3     |         |         |         |
| Chloromethane                                     | 0.81                           | 0.61    | 1.1     | 0.6     | 0.74    | 1.2     | 0.44    | 0.98    | 1.4     | 0.71    |         |         |   | 94   | 390   | 390     |         |         |         |
| Dibromochloromethane                              | <6.7                           | <7.1    | <5.8    | <7.1    | <7.3    | <7.1    | <7.1    | <6.8    | <7.1    | <7.3    | <7.1    | <7.1    | <7.1  | NS   | NS  | NS      |         |         |         |
| 1,2-Dichlorobenzene                               | <0.95                          | <1      | <0.96   | <1      | <1      | <1      | <1      | <0.96   | <1      | <1      | <1      | <1      | <1  | 210  | 880   | 880     |         |         |         |
| 1,3-Dichlorobenzene                               | <0.95                          | <1      | <0.96   | <1      | <1      | <1      | <1      | <0.96   | <1      | <1      | <1      | <1      | <1  | NS   | NS  | NS      |         |         |         |
| 1,4-Dichlorobenzene                               | <0.95                          | <1      | <0.96   | <1      | <1      | <1      | <1      | <0.96   | <1      | <1      | <1      | <1      | <1  | 2.6  | 11  | 11      |         |         |         |
| Dichlorodifluoromethane                           | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | 100  | 440   | 440     |         |         |         |
| 1,1-Dichloroethane                                | <0.64                          | <0.67   | <0.65   | <0.67   | <0.69   | <0.69   | <0.67   | <0.65   | <0.67   | <0.69   | <0.67   | <0.67   | <0.67                                       | 18   | 77  | 77      |         |         |         |
| 1,2-Dichloroethane                                | <0.04                          | <0.67   | <0.65   | <0.67   | <0.69   | <0.67   | <0.67   | <0.65   | <0.67   | <0.69   | <0.67   | <0.67   | <0.67                                       | 1.1  | 4.7   | 4.7     |         |         |         |
| 1,1-Dichloroethene                                | <0.62                          | <0.66   | <0.64   | <0.66   | <0.68   | <0.68   | <0.68   | <0.84   | <0.66   | <0.68   | <0.66   | <0.66   | <0.66                                       | 210  | 880   | 880     |         |         |         |
| cis-1,2-Dichloroethene                            | 0.69                           | 0.93    | <0.64   | 0.87    | 4.3     | 10      | 9       | 20      | 8.1     | 8.1     | 17      |         |   | 42   | 180   | 180     |         |         |         |
| trans-1,2-Dichloroethene                          | <3.1                           | <3.3    | <3.2    | <3.3    | <3.4    | <3.3    | <3.3    | <3.2    | 1.3     | 1.3     | <3.3    | <3.3    | <3.3  | 42   | 180   | 180     |         |         |         |
| 1,2-Dichloropropane                               | <0.73                          | <0.77   | <0.74   | <0.77   | <0.79   | <0.77   | <0.77   | <0.74   | <0.77   | <0.79   | <0.77   | <0.77   | <0.77                                       | 7.6  | 33  | 33      |         |         |         |
| cis-1,3-Dichloropropene                           | <0.72                          | <0.76   | <0.73   | <0.76   | <0.78   | <0.76   | <0.76   | <0.73   | <0.76   | <0.78   | <0.76   | <0.76   | <0.76                                       | 7.0  | 31  | 31      |         |         |         |
| trans-1,3-Dichloropropene                         | <0.72                          | <0.76   | <0.73   | <0.76   | <0.78   | <0.76   | <0.76   | <0.73   | <0.76   | <0.78   | <0.76   | <0.76   | <0.76                                       | 7.0  | 31  | 31      |         |         |         |
| Dichlorotetrafluoroethane                         | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | NS   | NS  | NS      |         |         |         |
| Ethylbenzene                                      | 2.1                            | 1.1     | 1.7     | 1.5     | <0.74   | 1       | 0.85    | <0.7    | <0.72   | <0.74   | 0.81    |         |   | 11   | 49  | 49      |         |         |         |
| 4-Ethyltoluene                                    | <3.9                           | <4.1    | <3.9    | 3       | <4.2    | <4.1    | <4.1    | 4.1     | <4.1    | <4.2    | <4.1    | <4.1    | <4.1  | NS   | NS  | NS      |         |         |         |
| Hexachloro-1,3-butadiene                          | <1.7                           | <1.8    | <1.7    | <1.8    | <1.8    | <1.8    | <1.8    | <1.7    | <1.8    | <1.8    | <1.8    | <1.8    | <1.8  | 1.3  | 5.6   | 5.6     |         |         |         |
| Methylene Chloride                                | 1.4                            | 1.3     | 1.2     | 1.3     | 0.62    | <0.58   | 0.76    | <0.56   | 1       | 1       | 0.75    |         |   | 630  | 2,600   | 2,600   |         |         |         |
| 4-Methyl-2-Pentanone (MIBK)                       | <2.8                           | <3      | <2.9    | <3      | <3.4    | <3      | <3      | <2.9    | <3      | <3.1    | <3      | <3      | <3  | 3,100  | 13,000  | 13,000  |         |         |         |
| Methyl-tert-butyl ether                           | <3.2                           | <3.4    | <3.3    | <3.4    | <3.5    | <3.4    | <3.4    | <3.3    | <3.4    | <3.5    | <3.4    | <3.4    | <3.4  | 110  | 470   | 470     |         |         |         |
| Naphthalene                                       | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | 0.83   | 3.6   | 3.6     |         |         |         |
| n-Propylbenzene                                   | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | 1,000  | 4,400   | 4,400   |         |         |         |
| 1,1,2,2-Tetrachloroethane                         | <1.1                           | <1.1    | <1.1    | <1.1    | <1.2    | <1.1    | <1.1    | <1.1    | <1.1    | <1.2    | <1.1    | <1.1    | <1.1  | 0.48   | 2.1   | 2.1     |         |         |         |
| Tetrachloroethene (PCE)                           | <1.1                           | <1.1    | <1.1    | <1.1    | 1.4     | <1.1    | <1.1    | <1.1    | <1.1    | <1.2    | <1.1    | <1.1    | <1.1  | 42   | 180   | 180     |         |         |         |
| Toluene   | 8                              | 4.5     | 7       | 4.7     | 3.8     | 3       | 3       | 6.1     | 1.9     | 1.9     | 6.7     |         |   | 5,200  | 22,000  | 22,000  |         |         |         |
| 1,2,4-Trichlorobenzene                            | <1.2                           | <1.2    | <1.2    | <1.2    | <1.3    | <1.2    | <1.2    | <1.2    | <1.2    | <1.3    | <1.2    | <1.2    | <1.2  | 2.1  | 8.8   | 8.8     |         |         |         |
| 1,1,1-Trichloroethane                             | 2                              | 1.9     | 2.1     | 2       | 1.5     | 1.1     | 0.94    | <0.88   | <0.91   | <0.93   | <0.91   | <0.91   | <0.91                                       | 5,200  | 22,000  | 22,000  |         |         |         |
| 1,1,2-Trichloroethane                             | <0.86                          | <0.91   | <0.88   | <0.91   | <0.93   | <0.91   | <0.91   | <0.88   | <0.91   | <0.93   | <0.91   | <0.91   | <0.91                                       | 1.8  | 7.7   | 7.7     |         |         |         |
| Trichloroethene (TCE)                             | <0.85                          | <0.9    | <0.86   | <0.9    | 3.8     | <0.9    | <0.9    | <0.86   | <0.9    | <0.92   | <0.9    | <0.9    | <0.9  | 2.1  | 8.8   | 8.8     |         |         |         |
| Trichlorofluoromethane                            | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | NS   | NS  | NS      |         |         |         |
| 1,1,2-Trichlorotrifluoroethane                    | NA                             | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA  | 5,200  | 22,000  | 22,000  |         |         |         |
| 1,2,4-Trimethylbenzene                            | 6                              | 3.9     | 4.1     | 5.4     | 1.8     | 2.2     | 1.9     | 9.1     | <0.82   | <0.84   | 1.8     |         |   | 63   | 260   | 260     |         |         |         |
| 1,3,5-Trimethylbenzene                            | 1.7                            | 1.1     | 1.4     | 1.5     | <0.84   | <0.82   | <0.82   | 1.7     | <0.82   | <0.84   | <0.82   | <0.82   | <0.82                                       | 63   | 260   | 260     |         |         |         |
| Vinyl Chloride                                    | <0.4                           | <4.3    | <0.41   | <0.43   | <0.44   | <0.43   | <0.43   | <0.41   | <0.43   | <0.44   | <0.43   | <0.43   | <0.43                                       | 1.7  | 28  | 28      |         |         |         |
| Xylenes, total                                    | 9.1                            | 5.7     | 7.8     | 7.9     | 2.7     | 3.2     | 2.82    | 9.7     | <1.44   | <1.48   | 3.9     |         |   | 100  | 440   | 440     |         |         |         |

Notes:  
1. Analytical units:  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter  
2. VAL for Residential Indoor Air = Vapor Action Level described in WDNR publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for residential air (Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022) and residential air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNR publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).  
3. VAL for Small Commercial Indoor Air = Vapor Action Level described in WDNR publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for industrial air (Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022) and small commercial air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNR publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).  
4. VAL for Large Commercial / Industrial Indoor Air = Vapor Action Level described in WDNR publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for industrial air (Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022) and large commercial / industrial air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNR publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).  
5. NA = not analyzed; NS = no standard  
6. Laboratory flags:  
\*J\* = concentration detected between the limit of detection and limit of quantification  
= analyte detected  
7. Exceedances:  
**BOLD** = concentration greater than residential Vapor Action Level  
[ ] = concentration greater than small commercial Vapor Action Level  
{ } = concentration greater than large commercial / industrial Vapor Action Level

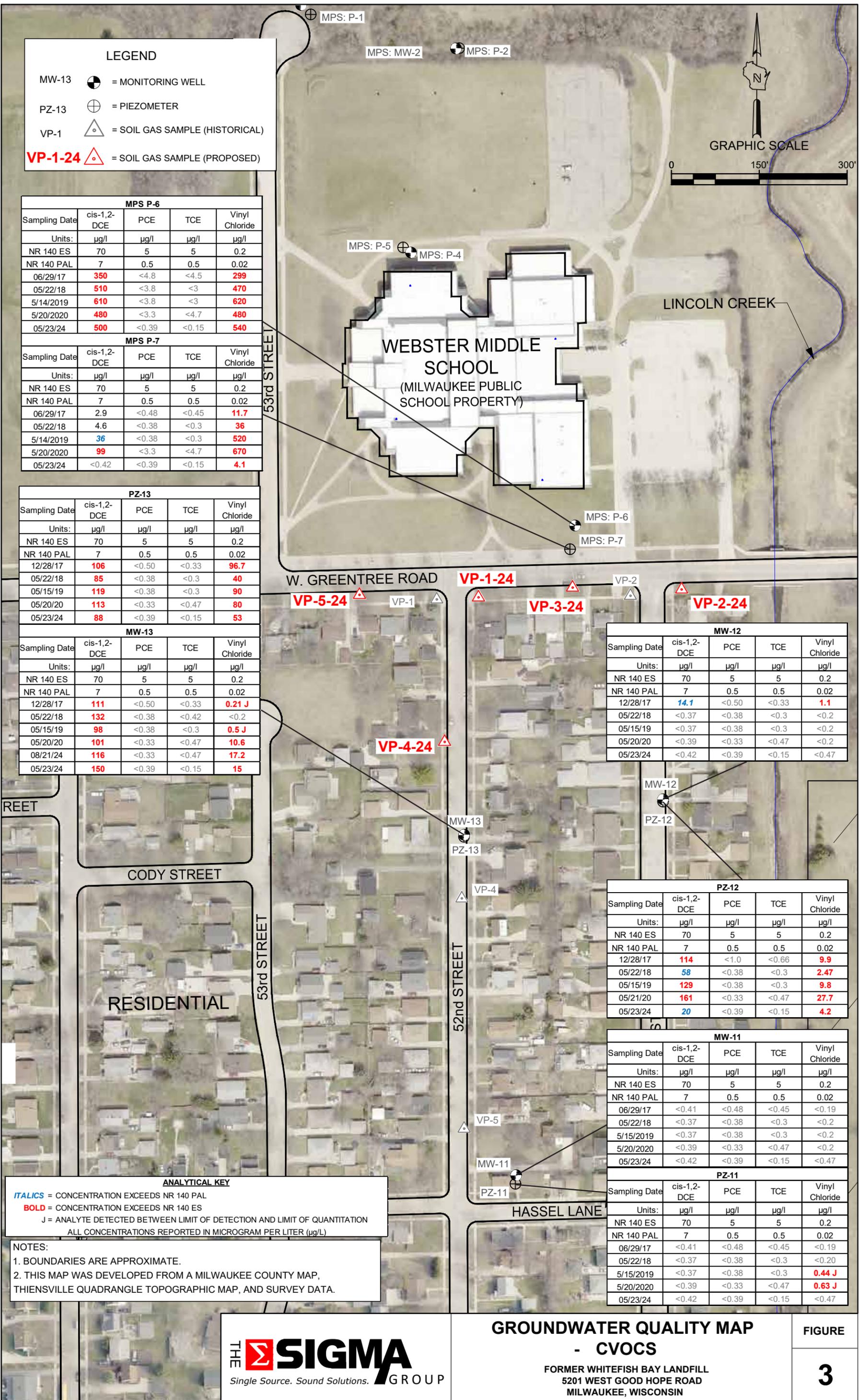
**Table 7**  
**Indoor Air Analytical Results - Middle School**  
**Whitefish Bay Landfill: Daniel Webster Secondary School - 6850 N. 53rd Street, Milwaukee, Wisconsin**  
**Sigma Project No. # 14411**

| Sample Identification:         | Indoor Air Samples - 1st. Round |                    |         |         |         |         | Indoor Air Samples - 2nd. Round |                    |          | Indoor Air Samples - 3rd. Round |                    |                 | Outdoor Air     | Indoor Air Samples - 4th. Round |                 |                 | Outdoor Air | VAL for Residential Indoor Air <sup>2</sup> | VAL for Small Commercial Indoor Air <sup>3</sup> | VAL for Large Commercial/Industrial Indoor Air <sup>4</sup> |
|--------------------------------|---------------------------------|--------------------|---------|---------|---------|---------|---------------------------------|--------------------|----------|---------------------------------|--------------------|-----------------|-----------------|---------------------------------|-----------------|-----------------|-------------|---|--|---|
|                                | MPS-14                          | MPS-15             | MPS-16  | MPS-17  | MPS-18  | MPS-19  | MPS-1B                          | MPS-6B             | MPS-9B   | IA-1                            | IA-2               | IA-3            | OA-1            | IA-01R                          | IA-02R          | OA-01           |             |   |  |   |
| Date:                          | 7/10/00                         | 7/10/00            | 7/10/00 | 7/10/00 | 7/10/00 | 7/10/00 | 12/27/00                        | 12/27/00           | 12/27/00 | 3/2/23-3/9/23                   | 3/2/23-3/9/23      | 3/2/23-3/9/23   | 3/14/23-3/21/23 | 6/5/24-6/14/24                  | 6/5/24-6/14/24  | 6/5/24-6/14/24  |             |   |  |   |
| Duration:                      | 79 min.                         | 78 min.            | 75 min. | 75 min. | 71 min. | 72 min. | -1 hr                           | -1 hr              | -1 hr    | 7 days                          | 7 days             | 7 days          | 7 days          | 10 Days                         | 10 Days         | 10 Days         |             |   |  |   |
| Collection Device              | Summa                           | Summa              | Summa   | Summa   | Summa   | Summa   | Summa                           | Summa              | Summa    | Passive Sampler                 | Passive Sampler    | Passive Sampler | Passive Sampler | Passive Sampler                 | Passive Sampler | Passive Sampler |             |   |  |   |
| Petroleum and Chlorinated VOCs |                                 | (EPA Method TO-14) |         |         |         |         |                                 | (EPA Method TO-14) |          |                                 | (EPA Method TO-17) |                 |                 | (EPA Method TO-17)              |                 |                 |             |   |  |   |
| Benzene                        | µg/m <sup>3</sup>               | 2.1                | 3.6     | 3       | 3       | 4.4     | 2.6                             | 1.3                | 4.2      | 12                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 3.6         | 16  | 16   |   |
| Benzyl Chloride                | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 0.57        | 2.5   | 2.5  |   |
| Bromodichloromethane           | µg/m <sup>3</sup>               | <5.7               | <5.7    | <5.7    | <5.8    | <6      | <6                              | <6                 | <6.2     | <3.2                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 0.76        | 3.3   | 3.3  |   |
| n-Butylbenzene                 | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| sec-Butylbenzene               | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| Carbon Tetrachloride           | µg/m <sup>3</sup>               | <1.1               | <1.1    | <1.1    | <1.1    | <1.1    | <1.1                            | <1.1               | <1.2     | <1.2                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 4.7         | 20  | 20   |   |
| Chlorobenzene                  | µg/m <sup>3</sup>               | <0.79              | 1.2     | <0.79   | <0.8    | 5.4     | 1.1                             | <0.82              | <0.86    | <0.86                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 52          | 220   | 220  |   |
| Chloroethane                   | µg/m <sup>3</sup>               | <0.45              | <0.45   | <0.45   | <0.46   | <0.47   | <0.47                           | <0.47              | <0.49    | <0.49                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 4,200       | 18,000                                      | 18,000   |   |
| Chloroform                     | µg/m <sup>3</sup>               | <0.83              | <0.83   | <0.83   | <0.85   | <0.87   | <0.87                           | <0.87              | <0.91    | <0.91                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 1.2         | 5.3   | 5.3  |   |
| Chloromethane                  | µg/m <sup>3</sup>               | 1.6                | 1.7     | 2       | 1.9     | 4.2     | 2.1                             | 1.3                | 1.2      | 1                               | NA                 | NA              | NA              | NA                              | NA              | NA              | 94          | 390   | 390  |   |
| Dibromochloromethane           | µg/m <sup>3</sup>               | <7.3               | <7.3    | <7.3    | <7.4    | <7.6    | <7.8                            | <7.6               | <7.9     | <7.9                            | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| 1,2-Dichlorobenzene            | µg/m <sup>3</sup>               | <1                 | <1      | <1      | <1      | <1.1    | <1.1                            | <1.1               | <1.1     | <1.1                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 210         | 880   | 880  |   |
| 1,3-Dichlorobenzene            | µg/m <sup>3</sup>               | <1                 | <1      | <1      | <1      | <1.1    | <1.1                            | <1.1               | <1.1     | <1.1                            | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| 1,4-Dichlorobenzene            | µg/m <sup>3</sup>               | <1                 | <1      | <1      | <1      | <1.1    | <1.1                            | <1.1               | <1.1     | <1.1                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 2.6         | 11  | 11   |   |
| Dichlorodifluoromethane        | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 100         | 440   | 440  |   |
| 1,1-Dichloroethane             | µg/m <sup>3</sup>               | <0.69              | <0.69   | <0.69   | <0.7    | <0.72   | <0.72                           | <0.72              | <0.75    | 2.1                             | NA                 | NA              | NA              | NA                              | NA              | NA              | 18          | 77  | 77   |   |
| 1,2-Dichloroethane             | µg/m <sup>3</sup>               | <0.69              | <0.69   | <0.69   | <0.7    | 4.4     | <0.72                           | <0.72              | <0.75    | <0.75                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 1.1         | 4.7   | 4.7  |   |
| 1,1-Dichloroethene             | µg/m <sup>3</sup>               | <0.68              | <0.68   | <0.68   | <0.69   | <0.7    | <0.7                            | <0.7               | <0.74    | <0.74                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 210         | 880   | 880  |   |
| cis-1,2-Dichloroethene         | µg/m <sup>3</sup>               | <0.68              | <0.68   | 0.82    | 0.52    | <0.7    | <0.7                            | <0.7               | 16       | 150                             | <7.7               | <2.6            | <7.7            | <2.6                            | <0.713          | <0.714          | <0.714      | 42  | 180  | 180   |
| trans-1,2-Dichloroethene       | µg/m <sup>3</sup>               | <3.4               | <3.4    | <3.4    | <3.4    | <3.5    | <3.5                            | <3.5               | <3.7     | 9.1                             | <18                | <6.2            | <18             | <6.1                            | <0.859          | <0.861          | <0.860      | 42  | 180  | 180   |
| 1,2-Dichloropropane            | µg/m <sup>3</sup>               | <0.79              | <0.79   | <0.79   | <0.8    | <0.82   | <0.82                           | <0.82              | <0.86    | <0.86                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 7.6         | 33  | 33   |   |
| cis-1,3-Dichloropropene        | µg/m <sup>3</sup>               | <0.78              | <0.78   | <0.78   | <0.79   | <0.81   | <0.81                           | <0.81              | <0.84    | <0.84                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 7.0         | 31  | 31   |   |
| trans-1,3-Dichloropropene      | µg/m <sup>3</sup>               | <0.78              | <0.78   | <0.78   | <0.79   | <0.81   | <0.81                           | <0.81              | <0.84    | <0.84                           | NA                 | NA              | NA              | NA                              | NA              | NA              | 7.0         | 31  | 31   |   |
| Dichlorotetrafluoroethane      | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| Ethylbenzene                   | µg/m <sup>3</sup>               | 2.1                | 3.4     | 3.1     | 3.2     | <0.77   | <0.77                           | <0.77              | 2.6      | 7.3                             | NA                 | NA              | NA              | NA                              | NA              | NA              | 11          | 49  | 49   |   |
| 4-Ethyltoluene                 | µg/m <sup>3</sup>               | <4.2               | 4.9     | <4.2    | 4.8     | <4.4    | <4.4                            | <4.4               | <4.6     | 8.9                             | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| Hexachloro-1,3-butadiene       | µg/m <sup>3</sup>               | <1.8               | <1.8    | <1.8    | <1.8    | <1.9    | <1.9                            | <1.9               | <2       | <2                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 1.3         | 5.6   | 5.6  |   |
| Methylene Chloride             | µg/m <sup>3</sup>               | 1.6                | 5.8     | 2.6     | 2.9     | 1.3     | 0.99                            | 14                 | 1.2      | 0.84                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 630         | 2,600                                       | 2,600  |   |
| 4-Methyl-2-Pentanone (MIBK)    | µg/m <sup>3</sup>               | <3.1               | <3.1    | <3.1    | <3.1    | <3.2    | <3.2                            | <3.2               | <3.4     | <3.4                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 3,100       | 13,000                                      | 13,000   |   |
| Methyl-tert-butyl ether        | µg/m <sup>3</sup>               | <3.5               | <3.5    | <3.5    | <3.6    | <3.6    | <3.6                            | <3.6               | <3.8     | <3.8                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 110         | 470   | 470  |   |
| Naphthalene                    | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 0.83        | 3.6   | 3.6  |   |
| n-Propylbenzene                | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 1,000       | 4,400                                       | 4,400  |   |
| 1,1,2,2-Tetrachloroethane      | µg/m <sup>3</sup>               | <1.2               | <1.2    | <1.2    | <1.2    | <1.2    | <1.2                            | <1.2               | <1.3     | <1.3                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 0.48        | 2.1   | 2.1  |   |
| Tetrachloroethene (PCE)        | µg/m <sup>3</sup>               | <1.2               | 1.5     | 2.3     | <1.2    | <1.2    | <1.2                            | <1.2               | <1.3     | <1.3                            | <3.8               | <1.3            | <3.8            | <1.3                            | <0.921          | <0.924          | <0.923      | 42  | 180  | 180   |
| Toluene                        | µg/m <sup>3</sup>               | 11                 | 17      | 21      | 12      | 11      | 10                              | 4.8                | 13       | 36                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 5,200       | 22,000                                      | 22,000   |   |
| 1,2,4-Trichlorobenzene         | µg/m <sup>3</sup>               | <1.3               | <1.3    | <1.3    | <1.3    | <1.3    | <1.3                            | <1.3               | <1.4     | <1.4                            | NA                 | NA              | NA              | NA                              | NA              | NA              | 2.1         | 8.8   | 8.8  |   |
| 1,1,1-Trichloroethane          | µg/m <sup>3</sup>               | 2.1                | 53      | 8.8     | 8.8     | <0.97   | <0.97                           | <0.97              | <1       | <1                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 5,200       | 22,000                                      | 22,000   |   |
| 1,1,2-Trichloroethane          | µg/m <sup>3</sup>               | <0.93              | <0.93   | <0.93   | <0.95   | <0.97   | <0.97                           | <0.97              | <1       | <1                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 1.8         | 7.7   | 7.7  |   |
| Trichloroethene (TCE)          | µg/m <sup>3</sup>               | <0.92              | <0.92   | <0.92   | <0.93   | <0.96   | <0.96                           | <0.96              | <1       | <1                              | <5.6               | <1.9            | <5.6            | <1.9                            | <1.14           | <1.15           | <1.15       | 2.1   | 8.8  | 8.8   |
| Trichlorofluoromethane         | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | NS          | NS  | NS   |   |
| 1,1,2-Trichlorotrifluoroethane | µg/m <sup>3</sup>               | NA                 | NA      | NA      | NA      | NA      | NA                              | NA                 | NA       | NA                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 5,200       | 22,000                                      | 22,000   |   |
| 1,2,4-Trimethylbenzene         | µg/m <sup>3</sup>               | 5.8                | 4.6     | 4.9     | 7.8     | 1.7     | 1.3                             | 0.88               | 3.4      | 9.1                             | NA                 | NA              | NA              | NA                              | NA              | NA              | 63          | 260   | 260  |   |
| 1,3,5-Trimethylbenzene         | µg/m <sup>3</sup>               | 1.9                | 1.9     | 1.5     | 2.4     | <0.87   | <0.87                           | <0.87              | 1.4      | 3.1                             | NA                 | NA              | NA              | NA                              | NA              | NA              | 63          | 260   | 260  |   |
| Vinyl Chloride                 | µg/m <sup>3</sup>               | <0.44              | <0.44   | <0.44   | <0.44   | <0.45   | <0.45                           | <0.45              | <0.48    | 0.47                            | <48                | <16             | <48             | <16                             | <0.466          | <0.467          | <0.467      | 1.7   | 28   | 28  |
| Xylenes, total                 | µg/m <sup>3</sup>               | 7.9                | 16.2    | 16.7    | 14.9    | 2.6     | 3.21                            | 5.2                | 13.9     | 39                              | NA                 | NA              | NA              | NA                              | NA              | NA              | 100         | 440   | 440  |   |

Notes:

- Analytical units: µg/m<sup>3</sup> = micrograms per cubic meter
- VAL for Residential Indoor Air = Vapor Action Level described in WDNr publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for residential air [Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022] and residential air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNr publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).
- VAL for Small Commercial Indoor Air = Vapor Action Level described in WDNr publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for industrial air [Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022] and small commercial air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNr publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).
- VAL for Large Commercial / Industrial Indoor Air = Vapor Action Level described in WDNr publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" (dated January 2018) which in turn references EPA Region 3 Risk-Based Concentrations for industrial air [Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2022] and large commercial / industrial air in January 2023 "Wisconsin Vapor Quick Look-Up Table, Indoor Air Vapor Action Levels And Vapor Risk Screening Levels" publication RR-0136. VAL adjusted to 1-in-100,000 increase in lifetime cancer risk for carcinogens per WDNr publication RR-800; VAL is not adjusted for non-carcinogens (i.e., hazard index = 1).
- NA = not analyzed; NS = no standard
- Laboratory flags:
  - \*J = concentration detected between the limit of detection and limit of quantification
  - = analyte detected
  - BOLD** = concentration greater than residential Vapor Action Level
  - [ ] = concentration greater than small commercial Vapor Action Level
  - { } = concentration greater than large commercial / industrial Vapor Action Level

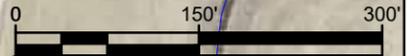




**LEGEND**

- MW-13 = MONITORING WELL
- PZ-13 = PIEZOMETER
- VP-1 = SOIL GAS SAMPLE (HISTORICAL)
- VP-1-24** = SOIL GAS SAMPLE (PROPOSED)

GRAPHIC SCALE



| MPS P-6       |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 06/29/17      | <b>350</b>  | <4.8  | <4.5  | <b>299</b>     |
| 05/22/18      | <b>510</b>  | <3.8  | <3    | <b>470</b>     |
| 5/14/2019     | <b>610</b>  | <3.8  | <3    | <b>620</b>     |
| 5/20/2020     | <b>480</b>  | <3.3  | <4.7  | <b>480</b>     |
| 05/23/24      | <b>500</b>  | <0.39 | <0.15 | <b>540</b>     |

| MPS P-7       |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 06/29/17      | 2.9         | <0.48 | <0.45 | <b>11.7</b>    |
| 05/22/18      | 4.6         | <0.38 | <0.3  | <b>36</b>      |
| 5/14/2019     | <b>36</b>   | <0.38 | <0.3  | <b>520</b>     |
| 5/20/2020     | <b>99</b>   | <3.3  | <4.7  | <b>670</b>     |
| 05/23/24      | <0.42       | <0.39 | <0.15 | <b>4.1</b>     |

| PZ-13         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 12/28/17      | <b>106</b>  | <0.50 | <0.33 | <b>96.7</b>    |
| 05/22/18      | <b>85</b>   | <0.38 | <0.3  | <b>40</b>      |
| 05/15/19      | <b>119</b>  | <0.38 | <0.3  | <b>90</b>      |
| 05/20/20      | <b>113</b>  | <0.33 | <0.47 | <b>80</b>      |
| 05/23/24      | <b>88</b>   | <0.39 | <0.15 | <b>53</b>      |

| MW-13         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 12/28/17      | <b>111</b>  | <0.50 | <0.33 | <b>0.21 J</b>  |
| 05/22/18      | <b>132</b>  | <0.38 | <0.42 | <0.2           |
| 05/15/19      | <b>98</b>   | <0.38 | <0.3  | <b>0.5 J</b>   |
| 05/20/20      | <b>101</b>  | <0.33 | <0.47 | <b>10.6</b>    |
| 08/21/24      | <b>116</b>  | <0.33 | <0.47 | <b>17.2</b>    |
| 05/23/24      | <b>150</b>  | <0.39 | <0.15 | <b>15</b>      |

| MW-12         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 12/28/17      | <b>14.1</b> | <0.50 | <0.33 | <b>1.1</b>     |
| 05/22/18      | <0.37       | <0.38 | <0.3  | <0.2           |
| 05/15/19      | <0.37       | <0.38 | <0.3  | <0.2           |
| 05/20/20      | <0.39       | <0.33 | <0.47 | <0.2           |
| 05/23/24      | <0.42       | <0.39 | <0.15 | <0.47          |

| PZ-12         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 12/28/17      | <b>114</b>  | <1.0  | <0.66 | <b>9.9</b>     |
| 05/22/18      | <b>58</b>   | <0.38 | <0.3  | <b>2.47</b>    |
| 05/15/19      | <b>129</b>  | <0.38 | <0.3  | <b>9.8</b>     |
| 05/21/20      | <b>161</b>  | <0.33 | <0.47 | <b>27.7</b>    |
| 05/23/24      | <b>20</b>   | <0.39 | <0.15 | <b>4.2</b>     |

| MW-11         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 06/29/17      | <0.41       | <0.48 | <0.45 | <0.19          |
| 05/22/18      | <0.37       | <0.38 | <0.3  | <0.2           |
| 5/15/2019     | <0.37       | <0.38 | <0.3  | <0.2           |
| 5/20/2020     | <0.39       | <0.33 | <0.47 | <0.2           |
| 05/23/24      | <0.42       | <0.39 | <0.15 | <0.47          |

| PZ-11         |             |       |       |                |
|---------------|-------------|-------|-------|----------------|
| Sampling Date | cis-1,2-DCE | PCE   | TCE   | Vinyl Chloride |
| Units:        | µg/l        | µg/l  | µg/l  | µg/l           |
| NR 140 ES     | 70          | 5     | 5     | 0.2            |
| NR 140 PAL    | 7           | 0.5   | 0.5   | 0.02           |
| 06/29/17      | <0.41       | <0.48 | <0.45 | <0.19          |
| 05/22/18      | <0.37       | <0.38 | <0.3  | <0.20          |
| 5/15/2019     | <0.37       | <0.38 | <0.3  | <b>0.44 J</b>  |
| 5/20/2020     | <0.39       | <0.33 | <0.47 | <b>0.63 J</b>  |
| 05/23/24      | <0.42       | <0.39 | <0.15 | <0.47          |

**ANALYTICAL KEY**

- ITALICS** = CONCENTRATION EXCEEDS NR 140 PAL
- BOLD** = CONCENTRATION EXCEEDS NR 140 ES
- J** = ANALYTE DETECTED BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION
- ALL CONCENTRATIONS REPORTED IN MICROGRAM PER LITER (µg/L)

**NOTES:**

1. BOUNDARIES ARE APPROXIMATE.
2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

Filepath: I:\Whitefish Bay\14411-WFB\_Landfill\060\_CAD\CADD\2018.09\_SI\_Report\_Figures\010\_Modeling\012\_BaseMap\012-02\_Subslab\_VP\_map.dwg  
 Date: 6/20/24  
 Created By: JRS/CRD  
 Directory: CAD  
 Project: 14411

| LEGEND |  |
|--------|--|
|        | APPROXIMATE SITE BOUNDARY                          |
|        | MONITORING WELL SAMPLED FOR PFAS & 1,4-DIOXANE     |
|        | MONITORING WELL NOT SAMPLED FOR PFAS & 1,4-DIOXANE |

| LEGEND                                       |   |
|--|---|
| <b>BOLD</b>                                  | = CONCENTRATION EXCEEDS NR 140 ES   |
| <i>ITALICS</i>                               | = CONCENTRATION EXCEEDS NR 140 PAL  |
| <b>BOLD</b>                                  | = CONCENTRATION EXCEEDS TH RECOMMENDED DEPARTMENT OF HEALTH SERVICES ES   |
| <i>ITALICS</i>                               | = CONCENTRATION EXCEEDS THE RECOMMENDED DEPARTMENT OF HEALTH SERVICES PAL |
| J  | = ANALYTE DETECTED BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION   |
| I  | = VALUE IS ESIMATED MAXIMUM POSSIBLE CONCENTRATION                        |
| 1,4-DIOXANE REPORTED IN MICROGRAMS PER LITER |   |
| PFAS DETECTED IN NANOGRAMS PER LITER         |   |

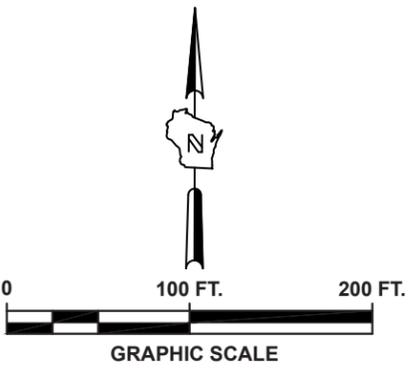
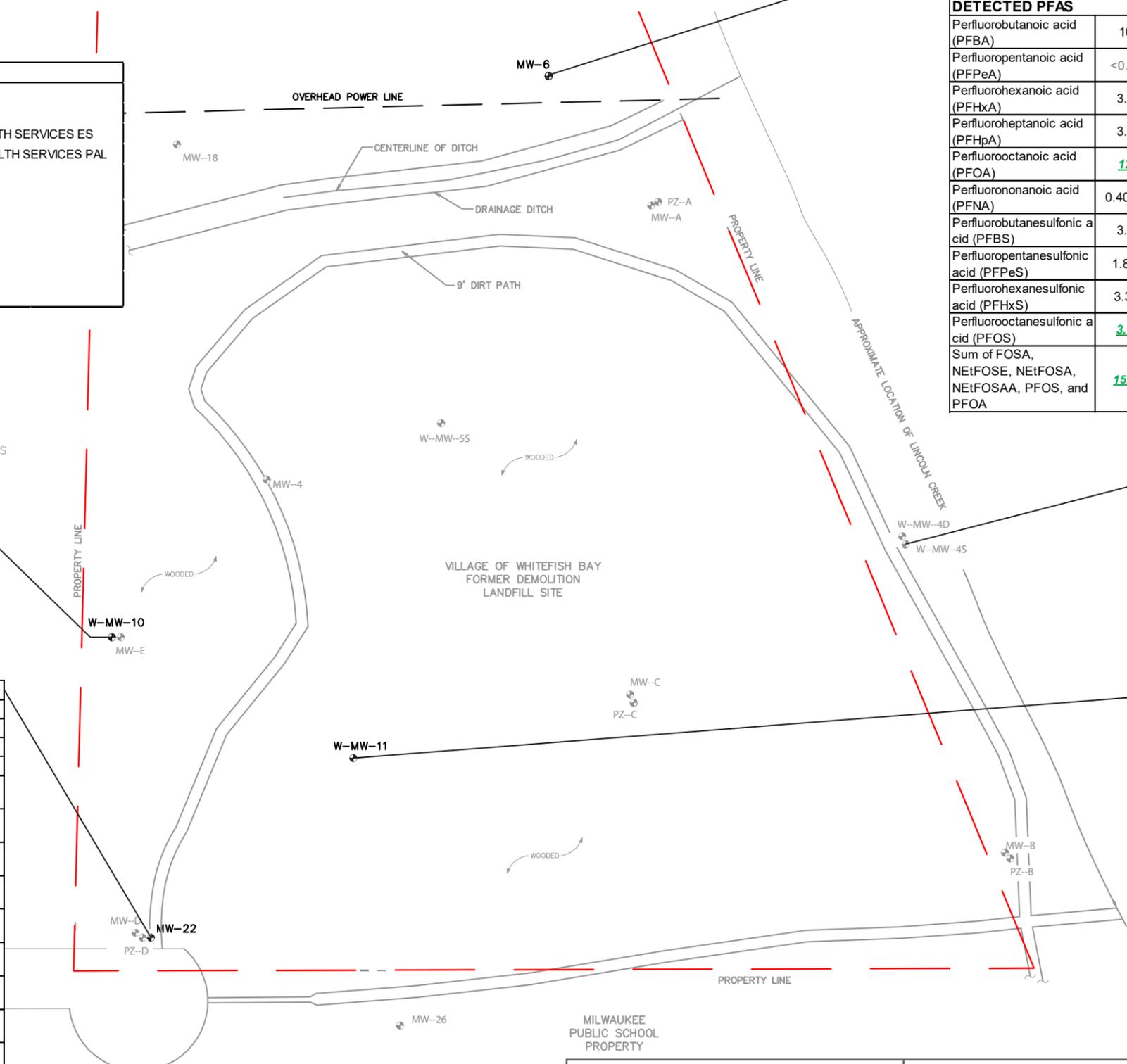
| ID:   | W-MW-10 |         |
|---|---------|---------|
| SAMPLE DATE:  | 2/22/23 | 5/23/24 |
| <b>SVOCS</b>  |         |         |
| 1,4-Dioxane   | 1.1     | NA      |
| <b>DETECTED PFAS</b>                                    |         |         |
| Perfluorobutanoic acid (PFBA)                           | 11      | 6       |
| Perfluoropentanoic acid (PFPeA)                         | 6.4     | 1.1 J   |
| Perfluorohexanoic acid (PFHxA)                          | 4.4     | 1.1 J   |
| Perfluoroheptanoic acid (PFHpA)                         | 2.5     | 0.81 J  |
| Perfluorooctanoic acid (PFOA)                           | 4.3     | 2.4     |
| Perfluorononanoic acid (PFNA)                           | <0.26   | <0.23   |
| Perfluorobutanesulfonic acid (PFBS)                     | 8.1     | 15      |
| Perfluoropentanesulfonic acid (PFPeS)                   | 0.51 J  | <0.25   |
| Perfluorohexanesulfonic acid (PFHxS)                    | 2.5     | 4.4 I   |
| Perfluorooctanesulfonic acid (PFOS)                     | 0.91 J  | 2.2 I   |
| Sum of FOSA, NETFOSE, NETFOSA, NETFOSAA, PFOS, and PFOA | 5.21    | 4.6     |

| ID:   | MW-22   |  |
|---|---------|--|
| SAMPLE DATE:  | 2/22/23 |  |
| <b>SVOCS</b>  |         |  |
| 1,4-Dioxane   | 3.4     |  |
| <b>DETECTED PFAS</b>                                    |         |  |
| Perfluorobutanoic acid (PFBA)                           | 12      |  |
| Perfluoropentanoic acid (PFPeA)                         | 9.6     |  |
| Perfluorohexanoic acid (PFHxA)                          | 5.7     |  |
| Perfluoroheptanoic acid (PFHpA)                         | 3.6     |  |
| Perfluorooctanoic acid (PFOA)                           | 5.5     |  |
| Perfluorononanoic acid (PFNA)                           | <0.26   |  |
| Perfluorobutanesulfonic acid (PFBS)                     | 13      |  |
| Perfluoropentanesulfonic acid (PFPeS)                   | 0.75 J  |  |
| Perfluorohexanesulfonic acid (PFHxS)                    | 4.2     |  |
| Perfluorooctanesulfonic acid (PFOS)                     | <0.51   |  |
| Sum of FOSA, NETFOSE, NETFOSA, NETFOSAA, PFOS, and PFOA | 5.5     |  |

| ID:   | MW-6     |         |
|---|----------|---------|
| SAMPLE DATE:  | 2/22/23  | 5/23/24 |
| <b>SVOCS</b>  |          |         |
| 1,4-Dioxane   | 0.28     | NA      |
| <b>DETECTED PFAS</b>                                    |          |         |
| Perfluorobutanoic acid (PFBA)                           | 10       | 7.5     |
| Perfluoropentanoic acid (PFPeA)                         | <0.48    | <0.44   |
| Perfluorohexanoic acid (PFHxA)                          | 3.5      | 2.3     |
| Perfluoroheptanoic acid (PFHpA)                         | 3.0      | 2.1     |
| Perfluorooctanoic acid (PFOA)                           | 12       | 14      |
| Perfluorononanoic acid (PFNA)                           | 0.40 J I | 0.32 J  |
| Perfluorobutanesulfonic acid (PFBS)                     | 3.0      | 2.6     |
| Perfluoropentanesulfonic acid (PFPeS)                   | 1.8 J    | 1.3 J I |
| Perfluorohexanesulfonic acid (PFHxS)                    | 3.3 I    | 4.2 I   |
| Perfluorooctanesulfonic acid (PFOS)                     | 3.5      | 4.7     |
| Sum of FOSA, NETFOSE, NETFOSA, NETFOSAA, PFOS, and PFOA | 15.5     | 18.7    |

| ID:   | W-MW-4S |  |
|---|---------|--|
| SAMPLE DATE:  | 5/23/24 |  |
| <b>SVOCS</b>  |         |  |
| 1,4-Dioxane   | NA      |  |
| <b>DETECTED PFAS</b>                                    |         |  |
| Perfluorobutanoic acid (PFBA)                           | 6.0     |  |
| Perfluoropentanoic acid (PFPeA)                         | 6.2     |  |
| Perfluorohexanoic acid (PFHxA)                          | 3.8     |  |
| Perfluoroheptanoic acid (PFHpA)                         | 2.2     |  |
| Perfluorooctanoic acid (PFOA)                           | 9.6     |  |
| Perfluorononanoic acid (PFNA)                           | 0.59 J  |  |
| Perfluorobutanesulfonic acid (PFBS)                     | 1.8     |  |
| Perfluoropentanesulfonic acid (PFPeS)                   | 1.3 J   |  |
| Perfluorohexanesulfonic acid (PFHxS)                    | 8.8     |  |
| Perfluorooctanesulfonic acid (PFOS)                     | 7.8     |  |
| Sum of FOSA, NETFOSE, NETFOSA, NETFOSAA, PFOS, and PFOA | 17.4    |  |

| ID:   | W-MW-11 |         |
|---|---------|---------|
| SAMPLE DATE:  | 2/22/23 | 5/23/24 |
| <b>SVOCS</b>  |         |         |
| 1,4-Dioxane   | 1.2     | NA      |
| <b>DETECTED PFAS</b>                                    |         |         |
| Perfluorobutanoic acid (PFBA)                           | 9.2     | 8.1     |
| Perfluoropentanoic acid (PFPeA)                         | 6.7     | 2.8     |
| Perfluorohexanoic acid (PFHxA)                          | 3.6     | <0.49   |
| Perfluoroheptanoic acid (PFHpA)                         | 1.8 J   | 1.5 J   |
| Perfluorooctanoic acid (PFOA)                           | 3.6     | 3.8     |
| Perfluorononanoic acid (PFNA)                           | <0.26   | <0.23   |
| Perfluorobutanesulfonic acid (PFBS)                     | 4.8     | <0.17   |
| Perfluoropentanesulfonic acid (PFPeS)                   | 1.2 J   | <0.26   |
| Perfluorohexanesulfonic acid (PFHxS)                    | 1.9     | 4.3 I   |
| Perfluorooctanesulfonic acid (PFOS)                     | <0.52   | <0.46   |
| Sum of FOSA, NETFOSE, NETFOSA, NETFOSAA, PFOS, and PFOA | 3.6     | 3.8     |





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**PFAS AND 1,4-DIOXANE  
GROUNDWATER QUALITY MAP**

FORMER WHITEFISH BAY LANDFILL  
5201 WEST GOOD HOPE ROAD  
WHITEFISH BAY, WISCONSIN

FIGURE

**4**

|             |               |
|-------------|---------------|
| Sample ID:  | <b>IA-03</b>  |
| Date:       | 3/2/23-3/9/23 |
| Duration:   | 7 days        |
| <b>VOCs</b> |               |
| C-1,2-DCE   | <7.7          |
| T-1,2-DCE   | <18           |
| PCE         | <3.8          |
| TCE         | <5.6          |
| VC          | <48           |

IA-03: Room 18

|             |               |                |
|-------------|---------------|----------------|
| Sample ID:  | <b>IA-01</b>  |                |
| Date:       | 3/2/23-3/9/23 | 6/5/24-6/14/24 |
| Duration:   | 7 days        | 10 Days        |
| <b>VOCs</b> |               |                |
| C-1,2-DCE   | <7.7          | <0.713         |
| T-1,2-DCE   | <18           | <0.859         |
| PCE         | <3.8          | <0.921         |
| TCE         | <5.6          | <1.14          |
| VC          | <48           | <0.466         |

IA-01: Room UE1

|             |               |                |
|-------------|---------------|----------------|
| Sample ID:  | <b>IA-02</b>  |                |
| Date:       | 3/2/23-3/9/23 | 6/5/24-6/14/24 |
| Duration:   | 7 days        | 10 Days        |
| <b>VOCs</b> |               |                |
| C-1,2-DCE   | <2.6          | <0.714         |
| T-1,2-DCE   | <6.2          | <0.861         |
| PCE         | <1.3          | <0.924         |
| TCE         | <1.9          | <1.15          |
| VC          | <16           | <0.467         |

IA-02: Room 44

|             |                 |                |
|-------------|-----------------|----------------|
| Sample ID:  | <b>OA-01</b>    |                |
| Date:       | 3/14/23-3/21/23 | 6/5/24-6/14/24 |
| Duration:   | 7 days          | 10 Days        |
| <b>VOCs</b> |                 |                |
| C-1,2-DCE   | <2.6            | <0.714         |
| T-1,2-DCE   | <6.1            | <0.860         |
| PCE         | <1.3            | <0.923         |
| TCE         | <1.9            | <1.15          |
| VC          | <16             | <0.467         |

OA-01(3/2023): Fence

OA-01(6/2024): Roof

**Analytical Key**

C-1,2-DCE = cis-1,2-Dichloroethene      T-1,2-DCE = trans-1,2-Dichloroethene  
 PCE = Tetrachloroethene                      TCE = Trichloroethene  
 VC = Vinyl Chloride

**BOLD** = concentration exceeds Vapor Risk Screening Level  
 All concentrations in units of µg/m3 (micrograms per cubic meter)



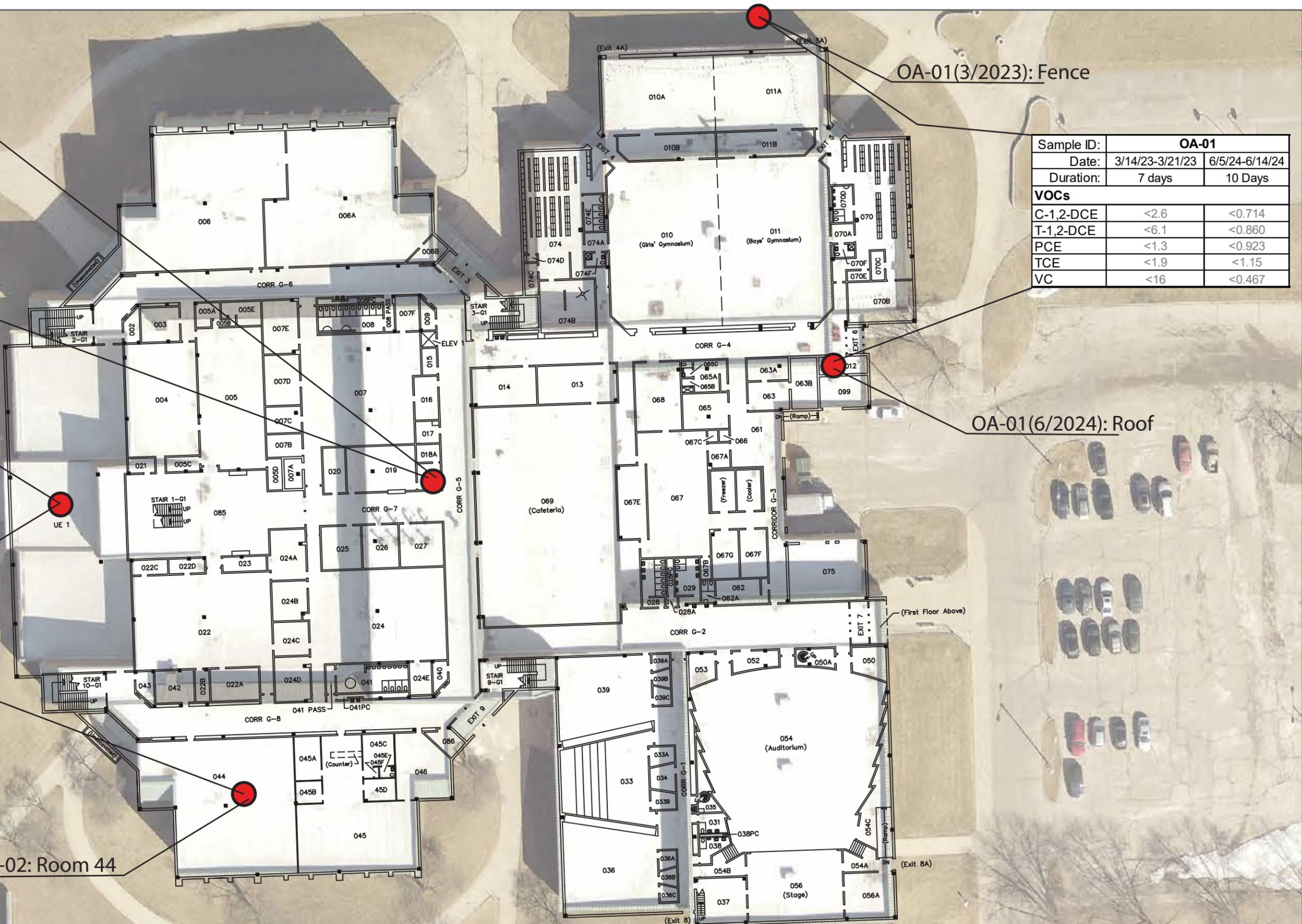
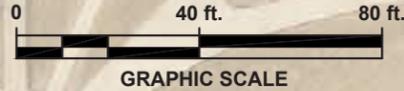
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**INDOOR AIR SAMPLE LOCATION MAP**

MPS SCHOOL PROPERTY  
6850 NORTH 53RD STREET  
MILWAUKEE, WISCONSIN

FIGURE

**5**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Grant Zwiefelhofer  
Sigma Group Inc, The  
1300 West Canal Street  
Milwaukee, Wisconsin 53233

Generated 6/11/2024 7:13:37 AM

## JOB DESCRIPTION

Whitefish LF - 14411 2Q24

## JOB NUMBER

500-251202-1

# Eurofins Chicago

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

## Authorization



Generated  
6/11/2024 7:13:37 AM

Authorized for release by  
Jodie Bracken, Project Manager I  
[Jodie.Bracken@ET.EurofinsUS.com](mailto:Jodie.Bracken@ET.EurofinsUS.com)  
(708)534-5200



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# Case Narrative

Client: Sigma Group Inc, The  
Project: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Job ID: 500-251202-1**

**Eurofins Chicago**

## Job Narrative 500-251202-1

### Receipt

The samples were received on 5/25/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

### GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-770521 recovered outside control limits for the following analytes: Styrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for analytical batch 500-770521 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: PZ-12 (500-251202-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte: W-MW-10 (500-251202-13), W-MW-11 (500-251202-14), MW-6 (500-251202-15) and Duplicate (500-251202-16).

Method 537 (modified): 13C-10:2-FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: Trip Blank (500-251202-18). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. As the associated target analyte is a legacy analyte for the state of WI, the sample was not re-analyzed to confirm the high recovery.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte: MW-6 (500-251202-15).

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: W-MW-10 (500-251202-13), W-MW-11 (500-251202-14) and Duplicate (500-251202-16). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The samples were re-analyzed to confirm the out of control IDA, with concurring results. The original analysis was reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

Method 3535: The following sample was received in 1 L bottle: Trip Blank (500-251202-18). The sample was transferred into new 250 mL bottle then fortified with IDA and extracted.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Client Sample ID: MPS-P-6

## Lab Sample ID: 500-251202-1

| Analyte                     | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane          | 1.3    |           | 1.0  | 0.36 | ug/L | 1       |   | 8260D  | Total/NA  |
| Benzene                     | 0.26   | J         | 0.50 | 0.18 | ug/L | 1       |   | 8260D  | Total/NA  |
| Naphthalene                 | 0.53   | J B       | 1.0  | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| trans-1,2-Dichloroethene    | 2.0    |           | 1.0  | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| cis-1,2-Dichloroethene - DL | 500    |           | 10   | 4.2  | ug/L | 10      |   | 8260D  | Total/NA  |
| Vinyl chloride - DL         | 540    |           | 10   | 4.7  | ug/L | 10      |   | 8260D  | Total/NA  |

## Client Sample ID: MPS-P-7

## Lab Sample ID: 500-251202-2

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Naphthalene    | 0.51   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride | 4.1    |           | 1.0 | 0.47 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: MW-11

## Lab Sample ID: 500-251202-3

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Naphthalene | 0.52   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: MW-12

## Lab Sample ID: 500-251202-4

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Naphthalene | 0.51   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: MW-13

## Lab Sample ID: 500-251202-5

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 0.49   | J         | 1.0 | 0.36 | ug/L | 1       |   | 8260D  | Total/NA  |
| cis-1,2-Dichloroethene   | 150    |           | 1.0 | 0.42 | ug/L | 1       |   | 8260D  | Total/NA  |
| Naphthalene              | 0.52   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| trans-1,2-Dichloroethene | 3.6    |           | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride           | 15     |           | 1.0 | 0.47 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: PZ-11

## Lab Sample ID: 500-251202-6

No Detections.

## Client Sample ID: PZ-12

## Lab Sample ID: 500-251202-7

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 20     |           | 1.0 | 0.42 | ug/L | 1       |   | 8260D  | Total/NA  |
| Naphthalene            | 0.50   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride         | 4.2    |           | 1.0 | 0.47 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: PZ-13

## Lab Sample ID: 500-251202-8

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 88     |           | 1.0 | 0.42 | ug/L | 1       |   | 8260D  | Total/NA  |
| Naphthalene            | 0.50   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride         | 53     |           | 1.0 | 0.47 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: Duplicate

## Lab Sample ID: 500-251202-9

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 2.5    |           | 1.0 | 0.42 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride         | 20     |           | 1.0 | 0.47 | ug/L | 1       |   | 8260D  | Total/NA  |

This Detection Summary does not include radiochemical test results.

Euofins Chicago



# Detection Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Client Sample ID: Equipment Blank

Lab Sample ID: 500-251202-10

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Naphthalene | 0.58   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: Trip Blank

Lab Sample ID: 500-251202-11

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Naphthalene | 0.56   | J B       | 1.0 | 0.44 | ug/L | 1       |   | 8260D  | Total/NA  |

## Client Sample ID: W-MW-4S

Lab Sample ID: 500-251202-12

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)         | 6.0    |           | 4.3 | 2.1  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)       | 6.2    |           | 1.7 | 0.43 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)        | 3.8    |           | 1.7 | 0.50 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)       | 2.2    |           | 1.7 | 0.22 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)         | 9.6    |           | 1.7 | 0.74 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)         | 0.59   | J         | 1.7 | 0.23 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)   | 1.8    |           | 1.7 | 0.17 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanesulfonic acid (PFPeS) | 1.3    | J         | 1.7 | 0.26 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)  | 8.8    |           | 1.7 | 0.49 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanesulfonic acid (PFHpS) | 0.31   | J         | 1.7 | 0.16 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)   | 7.8    |           | 1.7 | 0.47 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: W-MW-10

Lab Sample ID: 500-251202-13

| Analyte                              | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 6.0    |           | 4.2 | 2.0  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 1.1    | J         | 1.7 | 0.41 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 1.1    | J         | 1.7 | 0.49 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 0.81   | J         | 1.7 | 0.21 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 2.4    |           | 1.7 | 0.72 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)  | 15     |           | 1.7 | 0.17 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 4.4    | I         | 1.7 | 0.48 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 2.2    | I         | 1.7 | 0.46 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: W-MW-11

Lab Sample ID: 500-251202-14

| Analyte                              | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 8.1    |           | 4.3 | 2.0  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 2.8    |           | 1.7 | 0.42 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 1.5    | J         | 1.7 | 0.21 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 3.8    |           | 1.7 | 0.72 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 4.3    | I         | 1.7 | 0.48 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: MW-6

Lab Sample ID: 500-251202-15

| Analyte                             | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|-------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)       | 7.5    |           | 4.5 | 2.1  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)      | 2.3    |           | 1.8 | 0.52 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)     | 2.1    |           | 1.8 | 0.22 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)       | 14     |           | 1.8 | 0.76 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)       | 0.32   | J         | 1.8 | 0.24 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS) | 2.6    |           | 1.8 | 0.18 | ng/L | 1       |   | 537 (modified) | Total/NA  |

This Detection Summary does not include radiochemical test results.

Euofins Chicago

# Detection Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Client Sample ID: MW-6 (Continued)

Lab Sample ID: 500-251202-15

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluoropentanesulfonic acid (PFPeS) | 1.3    | J I       | 1.8 | 0.27 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)  | 4.2    | I         | 1.8 | 0.51 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)   | 4.7    |           | 1.8 | 0.48 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: Duplicate

Lab Sample ID: 500-251202-16

| Analyte                              | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|------|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 7.2    |           | 4.4 | 2.1  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 4.0    |           | 1.8 | 0.43 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 2.4    |           | 1.8 | 0.51 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 1.1    | J         | 1.8 | 0.22 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 4.5    |           | 1.8 | 0.75 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 3.5    | I         | 1.8 | 0.50 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: Equipment Blank

Lab Sample ID: 500-251202-17

No Detections.

## Client Sample ID: Trip Blank

Lab Sample ID: 500-251202-18

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

| Method         | Method Description                  | Protocol | Laboratory |
|----------------|-------------------------------------|----------|------------|
| 8260D          | Volatile Organic Compounds by GC/MS | SW846    | EET CHI    |
| 537 (modified) | Fluorinated Alkyl Substances        | EPA      | EET SAC    |
| 3535           | Solid-Phase Extraction (SPE)        | SW846    | EET SAC    |
| 5030B          | Purge and Trap                      | SW846    | EET CHI    |

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-251202-1  | MPS-P-6          | Water  | 05/23/24 10:20 | 05/25/24 09:40 |
| 500-251202-2  | MPS-P-7          | Water  | 05/23/24 10:15 | 05/25/24 09:40 |
| 500-251202-3  | MW-11            | Water  | 05/23/24 09:00 | 05/25/24 09:40 |
| 500-251202-4  | MW-12            | Water  | 05/23/24 08:35 | 05/25/24 09:40 |
| 500-251202-5  | MW-13            | Water  | 05/23/24 09:35 | 05/25/24 09:40 |
| 500-251202-6  | PZ-11            | Water  | 05/23/24 09:20 | 05/25/24 09:40 |
| 500-251202-7  | PZ-12            | Water  | 05/23/24 08:30 | 05/25/24 09:40 |
| 500-251202-8  | PZ-13            | Water  | 05/23/24 09:50 | 05/25/24 09:40 |
| 500-251202-9  | Duplicate        | Water  | 05/23/24 00:00 | 05/25/24 09:40 |
| 500-251202-10 | Equipment Blank  | Water  | 05/23/24 00:00 | 05/25/24 09:40 |
| 500-251202-11 | Trip Blank       | Water  | 05/23/24 00:00 | 05/25/24 09:40 |
| 500-251202-12 | W-MW-4S          | Water  | 05/23/24 12:30 | 05/25/24 09:40 |
| 500-251202-13 | W-MW-10          | Water  | 05/23/24 12:50 | 05/25/24 09:40 |
| 500-251202-14 | W-MW-11          | Water  | 05/23/24 11:40 | 05/25/24 09:40 |
| 500-251202-15 | MW-6             | Water  | 05/23/24 12:10 | 05/25/24 09:40 |
| 500-251202-16 | Duplicate        | Water  | 05/23/24 00:00 | 05/25/24 09:40 |
| 500-251202-17 | Equipment Blank  | Water  | 05/23/24 00:00 | 05/25/24 09:40 |
| 500-251202-18 | Trip Blank       | Water  | 05/23/24 00:00 | 05/25/24 09:40 |



# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MPS-P-6**

**Lab Sample ID: 500-251202-1**

**Date Collected: 05/23/24 10:20**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,1,2,2-Tetrachloroethane   | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 16:43 | 1       |
| <b>1,1-Dichloroethane</b>   | <b>1.3</b>  |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 16:43 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 16:43 | 1       |
| <b>Benzene</b>              | <b>0.26</b> | <b>J</b>   | 0.50 | 0.18 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 16:43 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 16:43 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 16:43 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 16:43 | 1       |
| <b>Naphthalene</b>          | <b>0.53</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 16:43 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 16:43 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 16:43 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 16:43 | 1       |
| sec-Butylbenzene            | <0.27       |            | 1.0  | 0.27 | ug/L |   |          | 06/02/24 16:43 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MPS-P-6**

**Lab Sample ID: 500-251202-1**

**Date Collected: 05/23/24 10:20**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                         | Result     | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Styrene                         | <0.31      | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 16:43 | 1       |
| tert-Butylbenzene               | <0.26      |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Tetrachloroethene               | <0.39      |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Toluene                         | <0.21      |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 16:43 | 1       |
| <b>trans-1,2-Dichloroethene</b> | <b>2.0</b> |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 16:43 | 1       |
| trans-1,3-Dichloropropene       | <0.63      |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Trichloroethene                 | <0.15      |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Trichlorofluoromethane          | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 16:43 | 1       |
| Xylenes, Total                  | <0.30      |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 16:43 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 75 - 126 |          | 06/02/24 16:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 72 - 124 |          | 06/02/24 16:43 | 1       |
| Dibromofluoromethane (Surr)  | 90        |           | 75 - 120 |          | 06/02/24 16:43 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 75 - 120 |          | 06/02/24 16:43 | 1       |

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL**

| Analyte                       | Result     | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>cis-1,2-Dichloroethene</b> | <b>500</b> |           | 10 | 4.2 | ug/L |   |          | 06/03/24 13:48 | 10      |
| <b>Vinyl chloride</b>         | <b>540</b> |           | 10 | 4.7 | ug/L |   |          | 06/03/24 13:48 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 75 - 126 |          | 06/03/24 13:48 | 10      |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 72 - 124 |          | 06/03/24 13:48 | 10      |
| Dibromofluoromethane (Surr)  | 116       |           | 75 - 120 |          | 06/03/24 13:48 | 10      |
| Toluene-d8 (Surr)            | 101       |           | 75 - 120 |          | 06/03/24 13:48 | 10      |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MPS-P-7**

**Lab Sample ID: 500-251202-2**

**Date Collected: 05/23/24 10:15**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1,2,2-Tetrachloroethane   | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1-Dichloroethane          | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:07 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Benzene                     | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:07 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 17:07 | 1       |
| cis-1,2-Dichloroethene      | <0.42       |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 17:07 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:07 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 17:07 | 1       |
| <b>Naphthalene</b>          | <b>0.51</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:07 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:07 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 17:07 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:07 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MPS-P-7**

**Lab Sample ID: 500-251202-2**

**Date Collected: 05/23/24 10:15**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result     | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27      |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Styrene                   | <0.31      | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:07 | 1       |
| tert-Butylbenzene         | <0.26      |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Tetrachloroethene         | <0.39      |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Toluene                   | <0.21      |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 17:07 | 1       |
| trans-1,2-Dichloroethene  | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:07 | 1       |
| trans-1,3-Dichloropropene | <0.63      |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Trichloroethene           | <0.15      |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Trichlorofluoromethane    | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:07 | 1       |
| <b>Vinyl chloride</b>     | <b>4.1</b> |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 17:07 | 1       |
| Xylenes, Total            | <0.30      |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:07 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 75 - 126 |          | 06/02/24 17:07 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 72 - 124 |          | 06/02/24 17:07 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 75 - 120 |          | 06/02/24 17:07 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 75 - 120 |          | 06/02/24 17:07 | 1       |



# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-251202-3**

**Date Collected: 05/23/24 09:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1,1,2,2-Tetrachloroethane | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1-Dichloroethane          | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:31 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Benzene                     | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:31 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 17:31 | 1       |
| cis-1,2-Dichloroethene      | <0.42       |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 17:31 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:31 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 17:31 | 1       |
| <b>Naphthalene</b>          | <b>0.52</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:31 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:31 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 17:31 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:31 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-251202-3**

**Date Collected: 05/23/24 09:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Styrene                   | <0.31  | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:31 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 17:31 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:31 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 17:31 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 126 |          | 06/02/24 17:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 72 - 124 |          | 06/02/24 17:31 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 75 - 120 |          | 06/02/24 17:31 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 75 - 120 |          | 06/02/24 17:31 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-251202-4**

**Date Collected: 05/23/24 08:35**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1,2,2-Tetrachloroethane   | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1-Dichloroethane          | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 17:54 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Benzene                     | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:54 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 17:54 | 1       |
| cis-1,2-Dichloroethene      | <0.42       |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 17:54 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 17:54 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 17:54 | 1       |
| <b>Naphthalene</b>          | <b>0.51</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:54 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 17:54 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 17:54 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 17:54 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-251202-4**

**Date Collected: 05/23/24 08:35**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Styrene                   | <0.31  | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 17:54 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 17:54 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:54 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 17:54 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 17:54 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 75 - 126 |          | 06/02/24 17:54 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 72 - 124 |          | 06/02/24 17:54 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 75 - 120 |          | 06/02/24 17:54 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 75 - 120 |          | 06/02/24 17:54 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-251202-5**

**Date Collected: 05/23/24 09:35**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane     | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,1,1-Trichloroethane         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,1,2,2-Tetrachloroethane     | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,1,2-Trichloroethane         | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 18:18 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>0.49</b> | <b>J</b>   | 1.0  | 0.36 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,1-Dichloroethene            | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,1-Dichloropropene           | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2,3-Trichlorobenzene        | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2,3-Trichloropropane        | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2,4-Trichlorobenzene        | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2,4-Trimethylbenzene        | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2-Dibromoethane             | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2-Dichlorobenzene           | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2-Dichloroethane            | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,2-Dichloropropane           | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,3,5-Trimethylbenzene        | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,3-Dichlorobenzene           | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,3-Dichloropropane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 1,4-Dichlorobenzene           | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 2,2-Dichloropropane           | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 2-Chlorotoluene               | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 18:18 | 1       |
| 4-Chlorotoluene               | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Benzene                       | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Bromobenzene                  | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Bromochloromethane            | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Bromodichloromethane          | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Bromoform                     | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Bromomethane                  | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 18:18 | 1       |
| Carbon tetrachloride          | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Chlorobenzene                 | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Chloroethane                  | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Chloroform                    | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Chloromethane                 | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 18:18 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>150</b>  |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 18:18 | 1       |
| cis-1,3-Dichloropropene       | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Dibromochloromethane          | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Dibromomethane                | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Dichlorodifluoromethane       | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 18:18 | 1       |
| Ethylbenzene                  | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Hexachlorobutadiene           | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Isopropyl ether               | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Isopropylbenzene              | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Methyl tert-butyl ether       | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Methylene Chloride            | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 18:18 | 1       |
| <b>Naphthalene</b>            | <b>0.52</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 18:18 | 1       |
| n-Butylbenzene                | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 18:18 | 1       |
| N-Propylbenzene               | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 18:18 | 1       |
| p-Isopropyltoluene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 18:18 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-251202-5**

**Date Collected: 05/23/24 09:35**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                         | Result     | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene                | <0.27      |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Styrene                         | <0.31      | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 18:18 | 1       |
| tert-Butylbenzene               | <0.26      |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Tetrachloroethene               | <0.39      |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Toluene                         | <0.21      |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 18:18 | 1       |
| <b>trans-1,2-Dichloroethene</b> | <b>3.6</b> |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 18:18 | 1       |
| trans-1,3-Dichloropropene       | <0.63      |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Trichloroethene                 | <0.15      |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Trichlorofluoromethane          | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 18:18 | 1       |
| <b>Vinyl chloride</b>           | <b>15</b>  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 18:18 | 1       |
| Xylenes, Total                  | <0.30      |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 18:18 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 75 - 126 |          | 06/02/24 18:18 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 72 - 124 |          | 06/02/24 18:18 | 1       |
| Dibromofluoromethane (Surr)  | 96        |           | 75 - 120 |          | 06/02/24 18:18 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 75 - 120 |          | 06/02/24 18:18 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-11**

**Lab Sample ID: 500-251202-6**

**Date Collected: 05/23/24 09:20**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67  |           | 1.0  | 0.67 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1,1-Trichloroethane       | <0.45  |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1,1,2,2-Tetrachloroethane | <0.65  |           | 1.0  | 0.65 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1,2-Trichloroethane       | <0.73  |           | 1.0  | 0.73 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1-Dichloroethane          | <0.36  |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1-Dichloroethene          | <0.48  |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,1-Dichloropropene         | <0.33  |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35  |           | 1.0  | 0.35 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2,3-Trichloropropane      | <1.5   |           | 2.0  | 1.5  | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31  |           | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9   |           | 5.0  | 3.9  | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2-Dibromoethane           | <0.56  |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2-Dichlorobenzene         | <0.48  |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2-Dichloroethane          | <0.58  |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,2-Dichloropropane         | <0.37  |           | 1.0  | 0.37 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,3-Dichlorobenzene         | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,3-Dichloropropane         | <0.56  |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 1,4-Dichlorobenzene         | <0.45  |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 2,2-Dichloropropane         | <0.48  |           | 5.0  | 0.48 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 2-Chlorotoluene             | <0.36  |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:06 | 1       |
| 4-Chlorotoluene             | <0.34  |           | 1.0  | 0.34 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Benzene                     | <0.18  |           | 0.50 | 0.18 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Bromobenzene                | <0.60  |           | 1.0  | 0.60 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Bromochloromethane          | <0.50  |           | 1.0  | 0.50 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Bromodichloromethane        | <0.57  |           | 1.0  | 0.57 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Bromoform                   | <0.96  |           | 1.0  | 0.96 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Bromomethane                | <1.8   |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:06 | 1       |
| Carbon tetrachloride        | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Chlorobenzene               | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Chloroethane                | <0.47  |           | 5.0  | 0.47 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Chloroform                  | <0.92  |           | 2.0  | 0.92 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Chloromethane               | <0.79  |           | 5.0  | 0.79 | ug/L |   |          | 06/02/24 19:06 | 1       |
| cis-1,2-Dichloroethene      | <0.42  |           | 1.0  | 0.42 | ug/L |   |          | 06/02/24 19:06 | 1       |
| cis-1,3-Dichloropropene     | <0.52  |           | 1.0  | 0.52 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Dibromochloromethane        | <0.83  |           | 1.0  | 0.83 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Dibromomethane              | <0.58  |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Dichlorodifluoromethane     | <1.8   |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:06 | 1       |
| Ethylbenzene                | <0.20  |           | 0.50 | 0.20 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Hexachlorobutadiene         | <0.54  |           | 1.0  | 0.54 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Isopropyl ether             | <0.38  |           | 1.0  | 0.38 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Isopropylbenzene            | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Methyl tert-butyl ether     | <0.43  |           | 1.0  | 0.43 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Methylene Chloride          | <3.6   |           | 5.0  | 3.6  | ug/L |   |          | 06/02/24 19:06 | 1       |
| Naphthalene                 | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:06 | 1       |
| n-Butylbenzene              | <0.33  |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:06 | 1       |
| N-Propylbenzene             | <0.32  |           | 1.0  | 0.32 | ug/L |   |          | 06/02/24 19:06 | 1       |
| p-Isopropyltoluene          | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:06 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-11**

**Lab Sample ID: 500-251202-6**

**Date Collected: 05/23/24 09:20**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Styrene                   | <0.31  | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:06 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 19:06 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:06 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 19:06 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 75 - 126 |          | 06/02/24 19:06 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 72 - 124 |          | 06/02/24 19:06 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 75 - 120 |          | 06/02/24 19:06 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 75 - 120 |          | 06/02/24 19:06 | 1       |



# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-12**

**Lab Sample ID: 500-251202-7**

**Date Collected: 05/23/24 08:30**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane     | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1,1-Trichloroethane         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1,2,2-Tetrachloroethane     | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1,2-Trichloroethane         | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1-Dichloroethane            | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1-Dichloroethene            | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,1-Dichloropropene           | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2,3-Trichlorobenzene        | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2,3-Trichloropropane        | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2,4-Trichlorobenzene        | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2,4-Trimethylbenzene        | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2-Dibromoethane             | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2-Dichlorobenzene           | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2-Dichloroethane            | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,2-Dichloropropane           | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,3,5-Trimethylbenzene        | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,3-Dichlorobenzene           | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,3-Dichloropropane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 1,4-Dichlorobenzene           | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 2,2-Dichloropropane           | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 2-Chlorotoluene               | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:29 | 1       |
| 4-Chlorotoluene               | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Benzene                       | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Bromobenzene                  | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Bromochloromethane            | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Bromodichloromethane          | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Bromoform                     | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Bromomethane                  | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:29 | 1       |
| Carbon tetrachloride          | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Chlorobenzene                 | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Chloroethane                  | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Chloroform                    | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Chloromethane                 | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 19:29 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>20</b>   |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 19:29 | 1       |
| cis-1,3-Dichloropropene       | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Dibromochloromethane          | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Dibromomethane                | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Dichlorodifluoromethane       | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:29 | 1       |
| Ethylbenzene                  | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Hexachlorobutadiene           | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Isopropyl ether               | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Isopropylbenzene              | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Methyl tert-butyl ether       | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Methylene Chloride            | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 19:29 | 1       |
| <b>Naphthalene</b>            | <b>0.50</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:29 | 1       |
| n-Butylbenzene                | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:29 | 1       |
| N-Propylbenzene               | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 19:29 | 1       |
| p-Isopropyltoluene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:29 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-12**

**Lab Sample ID: 500-251202-7**

**Date Collected: 05/23/24 08:30**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result     | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27      |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Styrene                   | <0.31      | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:29 | 1       |
| tert-Butylbenzene         | <0.26      |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Tetrachloroethene         | <0.39      |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Toluene                   | <0.21      |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 19:29 | 1       |
| trans-1,2-Dichloroethene  | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:29 | 1       |
| trans-1,3-Dichloropropene | <0.63      |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Trichloroethene           | <0.15      |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Trichlorofluoromethane    | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:29 | 1       |
| <b>Vinyl chloride</b>     | <b>4.2</b> |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 19:29 | 1       |
| Xylenes, Total            | <0.30      |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 126 |          | 06/02/24 19:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 72 - 124 |          | 06/02/24 19:29 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 75 - 120 |          | 06/02/24 19:29 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 75 - 120 |          | 06/02/24 19:29 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-13**

**Lab Sample ID: 500-251202-8**

**Date Collected: 05/23/24 09:50**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane     | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1,1-Trichloroethane         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1,2,2-Tetrachloroethane     | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1,2-Trichloroethane         | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1-Dichloroethane            | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1-Dichloroethene            | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,1-Dichloropropene           | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2,3-Trichlorobenzene        | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2,3-Trichloropropane        | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2,4-Trichlorobenzene        | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2,4-Trimethylbenzene        | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2-Dibromoethane             | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2-Dichlorobenzene           | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2-Dichloroethane            | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,2-Dichloropropane           | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,3,5-Trimethylbenzene        | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,3-Dichlorobenzene           | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,3-Dichloropropane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 1,4-Dichlorobenzene           | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 2,2-Dichloropropane           | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 2-Chlorotoluene               | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 19:53 | 1       |
| 4-Chlorotoluene               | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Benzene                       | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Bromobenzene                  | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Bromochloromethane            | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Bromodichloromethane          | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Bromoform                     | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Bromomethane                  | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:53 | 1       |
| Carbon tetrachloride          | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Chlorobenzene                 | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Chloroethane                  | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Chloroform                    | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Chloromethane                 | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 19:53 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>88</b>   |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 19:53 | 1       |
| cis-1,3-Dichloropropene       | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Dibromochloromethane          | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Dibromomethane                | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Dichlorodifluoromethane       | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 19:53 | 1       |
| Ethylbenzene                  | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Hexachlorobutadiene           | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Isopropyl ether               | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Isopropylbenzene              | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Methyl tert-butyl ether       | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Methylene Chloride            | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 19:53 | 1       |
| <b>Naphthalene</b>            | <b>0.50</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:53 | 1       |
| n-Butylbenzene                | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 19:53 | 1       |
| N-Propylbenzene               | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 19:53 | 1       |
| p-Isopropyltoluene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 19:53 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-13**

**Lab Sample ID: 500-251202-8**

**Date Collected: 05/23/24 09:50**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result    | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27     |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Styrene                   | <0.31     | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 19:53 | 1       |
| tert-Butylbenzene         | <0.26     |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Tetrachloroethene         | <0.39     |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Toluene                   | <0.21     |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 19:53 | 1       |
| trans-1,2-Dichloroethene  | <0.44     |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:53 | 1       |
| trans-1,3-Dichloropropene | <0.63     |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Trichloroethene           | <0.15     |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Trichlorofluoromethane    | <0.44     |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 19:53 | 1       |
| <b>Vinyl chloride</b>     | <b>53</b> |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 19:53 | 1       |
| Xylenes, Total            | <0.30     |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 19:53 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 75 - 126 |          | 06/02/24 19:53 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 72 - 124 |          | 06/02/24 19:53 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 75 - 120 |          | 06/02/24 19:53 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 75 - 120 |          | 06/02/24 19:53 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-251202-9**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result     | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane     | <0.67      |           | 1.0  | 0.67 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1,1-Trichloroethane         | <0.45      |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1,1,2,2-Tetrachloroethane   | <0.65      |           | 1.0  | 0.65 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1,2-Trichloroethane         | <0.73      |           | 1.0  | 0.73 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1-Dichloroethane            | <0.36      |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1-Dichloroethene            | <0.48      |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,1-Dichloropropene           | <0.33      |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2,3-Trichlorobenzene        | <0.35      |           | 1.0  | 0.35 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2,3-Trichloropropane        | <1.5       |           | 2.0  | 1.5  | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2,4-Trichlorobenzene        | <0.31      |           | 1.0  | 0.31 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2,4-Trimethylbenzene        | <0.30      |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <3.9       |           | 5.0  | 3.9  | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2-Dibromoethane             | <0.56      |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2-Dichlorobenzene           | <0.48      |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2-Dichloroethane            | <0.58      |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,2-Dichloropropane           | <0.37      |           | 1.0  | 0.37 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,3,5-Trimethylbenzene        | <0.29      |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,3-Dichlorobenzene           | <0.41      |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,3-Dichloropropane           | <0.56      |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 1,4-Dichlorobenzene           | <0.45      |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 2,2-Dichloropropane           | <0.48      |           | 5.0  | 0.48 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 2-Chlorotoluene               | <0.36      |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 20:17 | 1       |
| 4-Chlorotoluene               | <0.34      |           | 1.0  | 0.34 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Benzene                       | <0.18      |           | 0.50 | 0.18 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Bromobenzene                  | <0.60      |           | 1.0  | 0.60 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Bromochloromethane            | <0.50      |           | 1.0  | 0.50 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Bromodichloromethane          | <0.57      |           | 1.0  | 0.57 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Bromoform                     | <0.96      |           | 1.0  | 0.96 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Bromomethane                  | <1.8       |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 20:17 | 1       |
| Carbon tetrachloride          | <0.41      |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Chlorobenzene                 | <0.41      |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Chloroethane                  | <0.47      |           | 5.0  | 0.47 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Chloroform                    | <0.92      |           | 2.0  | 0.92 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Chloromethane                 | <0.79      |           | 5.0  | 0.79 | ug/L |   |          | 06/02/24 20:17 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>2.5</b> |           | 1.0  | 0.42 | ug/L |   |          | 06/02/24 20:17 | 1       |
| cis-1,3-Dichloropropene       | <0.52      |           | 1.0  | 0.52 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Dibromochloromethane          | <0.83      |           | 1.0  | 0.83 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Dibromomethane                | <0.58      |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Dichlorodifluoromethane       | <1.8       |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 20:17 | 1       |
| Ethylbenzene                  | <0.20      |           | 0.50 | 0.20 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Hexachlorobutadiene           | <0.54      |           | 1.0  | 0.54 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Isopropyl ether               | <0.38      |           | 1.0  | 0.38 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Isopropylbenzene              | <0.29      |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Methyl tert-butyl ether       | <0.43      |           | 1.0  | 0.43 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Methylene Chloride            | <3.6       |           | 5.0  | 3.6  | ug/L |   |          | 06/02/24 20:17 | 1       |
| Naphthalene                   | <0.44      |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 20:17 | 1       |
| n-Butylbenzene                | <0.33      |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 20:17 | 1       |
| N-Propylbenzene               | <0.32      |           | 1.0  | 0.32 | ug/L |   |          | 06/02/24 20:17 | 1       |
| p-Isopropyltoluene            | <0.29      |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 20:17 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-251202-9**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result    | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27     |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Styrene                   | <0.31     | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 20:17 | 1       |
| tert-Butylbenzene         | <0.26     |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Tetrachloroethene         | <0.39     |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Toluene                   | <0.21     |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 20:17 | 1       |
| trans-1,2-Dichloroethene  | <0.44     |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 20:17 | 1       |
| trans-1,3-Dichloropropene | <0.63     |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Trichloroethene           | <0.15     |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Trichlorofluoromethane    | <0.44     |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 20:17 | 1       |
| <b>Vinyl chloride</b>     | <b>20</b> |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 20:17 | 1       |
| Xylenes, Total            | <0.30     |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 20:17 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 75 - 126 |          | 06/02/24 20:17 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 72 - 124 |          | 06/02/24 20:17 | 1       |
| Dibromofluoromethane (Surr)  | 94        |           | 75 - 120 |          | 06/02/24 20:17 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 75 - 120 |          | 06/02/24 20:17 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 500-251202-10**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1,1,2,2-Tetrachloroethane | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1-Dichloroethane          | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 14:44 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Benzene                     | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 14:44 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 14:44 | 1       |
| cis-1,2-Dichloroethene      | <0.42       |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 14:44 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 14:44 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 14:44 | 1       |
| <b>Naphthalene</b>          | <b>0.58</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:44 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 14:44 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 14:44 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:44 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 500-251202-10**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Styrene                   | <0.31  | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 14:44 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 14:44 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:44 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 14:44 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 14:44 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 75 - 126 |          | 06/02/24 14:44 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 72 - 124 |          | 06/02/24 14:44 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 75 - 120 |          | 06/02/24 14:44 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 75 - 120 |          | 06/02/24 14:44 | 1       |



# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-251202-11**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane   | <0.67       |            | 1.0  | 0.67 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1,1-Trichloroethane       | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1,2,2-Tetrachloroethane   | <0.65       |            | 1.0  | 0.65 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1,2-Trichloroethane       | <0.73       |            | 1.0  | 0.73 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1-Dichloroethane          | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1-Dichloroethene          | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,1-Dichloropropene         | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35       |            | 1.0  | 0.35 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2,3-Trichloropropane      | <1.5        |            | 2.0  | 1.5  | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31       |            | 1.0  | 0.31 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30       |            | 1.0  | 0.30 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9        |            | 5.0  | 3.9  | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2-Dibromoethane           | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2-Dichlorobenzene         | <0.48       |            | 1.0  | 0.48 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2-Dichloroethane          | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,2-Dichloropropane         | <0.37       |            | 1.0  | 0.37 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,3-Dichlorobenzene         | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,3-Dichloropropane         | <0.56       |            | 1.0  | 0.56 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 1,4-Dichlorobenzene         | <0.45       |            | 1.0  | 0.45 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 2,2-Dichloropropane         | <0.48       |            | 5.0  | 0.48 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 2-Chlorotoluene             | <0.36       |            | 1.0  | 0.36 | ug/L |   |          | 06/02/24 14:21 | 1       |
| 4-Chlorotoluene             | <0.34       |            | 1.0  | 0.34 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Benzene                     | <0.18       |            | 0.50 | 0.18 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Bromobenzene                | <0.60       |            | 1.0  | 0.60 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Bromochloromethane          | <0.50       |            | 1.0  | 0.50 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Bromodichloromethane        | <0.57       |            | 1.0  | 0.57 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Bromoform                   | <0.96       |            | 1.0  | 0.96 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Bromomethane                | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 14:21 | 1       |
| Carbon tetrachloride        | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Chlorobenzene               | <0.41       |            | 1.0  | 0.41 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Chloroethane                | <0.47       |            | 5.0  | 0.47 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Chloroform                  | <0.92       |            | 2.0  | 0.92 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Chloromethane               | <0.79       |            | 5.0  | 0.79 | ug/L |   |          | 06/02/24 14:21 | 1       |
| cis-1,2-Dichloroethene      | <0.42       |            | 1.0  | 0.42 | ug/L |   |          | 06/02/24 14:21 | 1       |
| cis-1,3-Dichloropropene     | <0.52       |            | 1.0  | 0.52 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Dibromochloromethane        | <0.83       |            | 1.0  | 0.83 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Dibromomethane              | <0.58       |            | 1.0  | 0.58 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Dichlorodifluoromethane     | <1.8        |            | 3.0  | 1.8  | ug/L |   |          | 06/02/24 14:21 | 1       |
| Ethylbenzene                | <0.20       |            | 0.50 | 0.20 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Hexachlorobutadiene         | <0.54       |            | 1.0  | 0.54 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Isopropyl ether             | <0.38       |            | 1.0  | 0.38 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Isopropylbenzene            | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Methyl tert-butyl ether     | <0.43       |            | 1.0  | 0.43 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Methylene Chloride          | <3.6        |            | 5.0  | 3.6  | ug/L |   |          | 06/02/24 14:21 | 1       |
| <b>Naphthalene</b>          | <b>0.56</b> | <b>J B</b> | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:21 | 1       |
| n-Butylbenzene              | <0.33       |            | 1.0  | 0.33 | ug/L |   |          | 06/02/24 14:21 | 1       |
| N-Propylbenzene             | <0.32       |            | 1.0  | 0.32 | ug/L |   |          | 06/02/24 14:21 | 1       |
| p-Isopropyltoluene          | <0.29       |            | 1.0  | 0.29 | ug/L |   |          | 06/02/24 14:21 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-251202-11**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Styrene                   | <0.31  | *+        | 1.0  | 0.31 | ug/L |   |          | 06/02/24 14:21 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 14:21 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:21 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 14:21 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 14:21 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 126 |          | 06/02/24 14:21 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 72 - 124 |          | 06/02/24 14:21 | 1       |
| Dibromofluoromethane (Surr)  | 93        |           | 75 - 120 |          | 06/02/24 14:21 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 75 - 120 |          | 06/02/24 14:21 | 1       |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-4S**

**Lab Sample ID: 500-251202-12**

Date Collected: 05/23/24 12:30

Matrix: Water

Date Received: 05/25/24 09:40

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)               | 6.0    |           | 4.3 | 2.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluoropentanoic acid (PFPeA)             | 6.2    |           | 1.7 | 0.43 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorohexanoic acid (PFHxA)              | 3.8    |           | 1.7 | 0.50 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluoroheptanoic acid (PFHpA)             | 2.2    |           | 1.7 | 0.22 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorooctanoic acid (PFOA)               | 9.6    |           | 1.7 | 0.74 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorononanoic acid (PFNA)               | 0.59   | J         | 1.7 | 0.23 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorodecanoic acid (PFDA)               | <0.27  |           | 1.7 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluoroundecanoic acid (PFUnA)            | <0.95  |           | 1.7 | 0.95 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorododecanoic acid (PFDoA)            | <0.48  |           | 1.7 | 0.48 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorotridecanoic acid (PFTrDA)          | <1.1   |           | 1.7 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorotetradecanoic acid (PFTeA)         | <0.63  |           | 1.7 | 0.63 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorobutanesulfonic acid (PFBS)         | 1.8    |           | 1.7 | 0.17 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)       | 1.3    | J         | 1.7 | 0.26 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)        | 8.8    |           | 1.7 | 0.49 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)       | 0.31   | J         | 1.7 | 0.16 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorooctanesulfonic acid (PFOS)         | 7.8    |           | 1.7 | 0.47 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorononanesulfonic acid (PFNS)         | <0.32  |           | 1.7 | 0.32 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorodecanesulfonic acid (PFDS)         | <0.28  |           | 1.7 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.84  |           | 1.7 | 0.84 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.85  |           | 1.7 | 0.85 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NEtFOSA                                     | <0.75  |           | 1.7 | 0.75 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NMeFOSA                                     | <0.37  |           | 1.7 | 0.37 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NMeFOSAA                                    | <1.0   |           | 4.3 | 1.0  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NEtFOSAA                                    | <1.1   |           | 4.3 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NMeFOSE                                     | <1.2   |           | 3.5 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| NEtFOSE                                     | <0.74  |           | 1.7 | 0.74 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 4:2 FTS                                     | <0.21  |           | 1.7 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 6:2 FTS                                     | <2.2   |           | 4.3 | 2.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 8:2 FTS                                     | <0.40  |           | 1.7 | 0.40 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.35  |           | 1.7 | 0.35 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| HFPO-DA (GenX)                              | <1.3   |           | 3.5 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 9CI-PF3ONS                                  | <0.21  |           | 1.7 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 11CI-PF3OUdS                                | <0.28  |           | 1.7 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:26 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 53        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C5 PFPeA       | 67        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C2 PFHxA       | 76        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C4 PFHpA       | 91        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C4 PFOA        | 91        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C5 PFNA        | 93        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C2 PFDA        | 86        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C2 PFUnA       | 78        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C2 PFDoA       | 82        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |
| 13C2 PFTeDA      | 69        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:26 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-4S**

**Lab Sample ID: 500-251202-12**

**Date Collected: 05/23/24 12:30**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C3 PFBS               | 73               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| 18O2 PFHxS              | 82               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| 13C4 PFOS               | 87               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| 13C8 FOSA               | 86               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d3-NMeFOSAA             | 81               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d5-NEtFOSAA             | 81               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d-N-MeFOSA-M            | 71               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d-N-EtFOSA-M            | 72               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d7-N-MeFOSE-M           | 74               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| d9-N-EtFOSE-M           | 74               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| M2-4:2 FTS              | 107              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| M2-6:2 FTS              | 96               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| M2-8:2 FTS              | 99               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| 13C3 HFPO-DA            | 76               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |
| 13C2 10:2 FTS           | 94               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:26  | 1              |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-10**

**Lab Sample ID: 500-251202-13**

Date Collected: 05/23/24 12:50

Matrix: Water

Date Received: 05/25/24 09:40

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)               | 6.0    |           | 4.2 | 2.0  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluoropentanoic acid (PFPeA)             | 1.1    | J         | 1.7 | 0.41 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorohexanoic acid (PFHxA)              | 1.1    | J         | 1.7 | 0.49 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluoroheptanoic acid (PFHpA)             | 0.81   | J         | 1.7 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorooctanoic acid (PFOA)               | 2.4    |           | 1.7 | 0.72 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorononanoic acid (PFNA)               | <0.23  |           | 1.7 | 0.23 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorodecanoic acid (PFDA)               | <0.26  |           | 1.7 | 0.26 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluoroundecanoic acid (PFUnA)            | <0.93  |           | 1.7 | 0.93 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorododecanoic acid (PFDoA)            | <0.47  |           | 1.7 | 0.47 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorotridecanoic acid (PFTrDA)          | <1.1   |           | 1.7 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorotetradecanoic acid (PFTeA)         | <0.62  |           | 1.7 | 0.62 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorobutanesulfonic acid (PFBS)         | 15     |           | 1.7 | 0.17 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)       | <0.25  |           | 1.7 | 0.25 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)        | 4.4    | I         | 1.7 | 0.48 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)       | <0.16  |           | 1.7 | 0.16 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorooctanesulfonic acid (PFOS)         | 2.2    | I         | 1.7 | 0.46 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorononanesulfonic acid (PFNS)         | <0.31  |           | 1.7 | 0.31 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorodecanesulfonic acid (PFDS)         | <0.27  |           | 1.7 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.82  |           | 1.7 | 0.82 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.83  |           | 1.7 | 0.83 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NEtFOSA                                     | <0.74  |           | 1.7 | 0.74 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NMeFOSA                                     | <0.36  |           | 1.7 | 0.36 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NMeFOSAA                                    | <1.0   |           | 4.2 | 1.0  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NEtFOSAA                                    | <1.1   |           | 4.2 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NMeFOSE                                     | <1.2   |           | 3.4 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| NEtFOSE                                     | <0.72  |           | 1.7 | 0.72 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 4:2 FTS                                     | <0.20  |           | 1.7 | 0.20 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 6:2 FTS                                     | <2.1   |           | 4.2 | 2.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 8:2 FTS                                     | <0.39  |           | 1.7 | 0.39 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.34  |           | 1.7 | 0.34 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| HFPO-DA (GenX)                              | <1.3   |           | 3.4 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 9CI-PF3ONS                                  | <0.20  |           | 1.7 | 0.20 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 11CI-PF3OUdS                                | <0.27  |           | 1.7 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:36 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 67        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C5 PFPeA       | 69        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C2 PFHxA       | 69        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C4 PFHpA       | 83        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C4 PFOA        | 85        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C5 PFNA        | 86        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C2 PFDA        | 79        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C2 PFUnA       | 81        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C2 PFDoA       | 74        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |
| 13C2 PFTeDA      | 62        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:36 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-10**

**Lab Sample ID: 500-251202-13**

**Date Collected: 05/23/24 12:50**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C3 PFBS               | 82               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| 18O2 PFHxS              | 82               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| 13C4 PFOS               | 94               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| 13C8 FOSA               | 76               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d3-NMeFOSAA             | 86               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d5-NEtFOSAA             | 90               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d-N-MeFOSA-M            | 60               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d-N-EtFOSA-M            | 66               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d7-N-MeFOSE-M           | 69               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| d9-N-EtFOSE-M           | 71               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| M2-4:2 FTS              | 156              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| M2-6:2 FTS              | 144              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| M2-8:2 FTS              | 288              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| 13C3 HFPO-DA            | 81               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |
| 13C2 10:2 FTS           | 101              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:36  | 1              |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-11**

**Lab Sample ID: 500-251202-14**

**Date Collected: 05/23/24 11:40**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)               | 8.1    |           | 4.3 | 2.0  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluoropentanoic acid (PFPeA)             | 2.8    |           | 1.7 | 0.42 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorohexanoic acid (PFHxA)              | <0.49  |           | 1.7 | 0.49 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluoroheptanoic acid (PFHpA)             | 1.5    | J         | 1.7 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorooctanoic acid (PFOA)               | 3.8    |           | 1.7 | 0.72 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorononanoic acid (PFNA)               | <0.23  |           | 1.7 | 0.23 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorodecanoic acid (PFDA)               | <0.26  |           | 1.7 | 0.26 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluoroundecanoic acid (PFUnA)            | <0.94  |           | 1.7 | 0.94 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorododecanoic acid (PFDoA)            | <0.47  |           | 1.7 | 0.47 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorotridecanoic acid (PFTrDA)          | <1.1   |           | 1.7 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorotetradecanoic acid (PFTeA)         | <0.62  |           | 1.7 | 0.62 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorobutanesulfonic acid (PFBS)         | <0.17  |           | 1.7 | 0.17 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)       | <0.26  |           | 1.7 | 0.26 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)        | 4.3    | I         | 1.7 | 0.48 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)       | <0.16  |           | 1.7 | 0.16 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorooctanesulfonic acid (PFOS)         | <0.46  |           | 1.7 | 0.46 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorononanesulfonic acid (PFNS)         | <0.31  |           | 1.7 | 0.31 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorodecanesulfonic acid (PFDS)         | <0.27  |           | 1.7 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.83  |           | 1.7 | 0.83 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.83  |           | 1.7 | 0.83 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NEtFOSA                                     | <0.74  |           | 1.7 | 0.74 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NMeFOSA                                     | <0.37  |           | 1.7 | 0.37 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NMeFOSAA                                    | <1.0   |           | 4.3 | 1.0  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NEtFOSAA                                    | <1.1   |           | 4.3 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NMeFOSE                                     | <1.2   |           | 3.4 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| NEtFOSE                                     | <0.72  |           | 1.7 | 0.72 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 4:2 FTS                                     | <0.20  |           | 1.7 | 0.20 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 6:2 FTS                                     | <2.1   |           | 4.3 | 2.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 8:2 FTS                                     | <0.39  |           | 1.7 | 0.39 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.34  |           | 1.7 | 0.34 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| HFPO-DA (GenX)                              | <1.3   |           | 3.4 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 9Cl-PF3ONS                                  | <0.20  |           | 1.7 | 0.20 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 11Cl-PF3OUdS                                | <0.27  |           | 1.7 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 18:46 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 37        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C5 PFPeA       | 49        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C2 PFHxA       | 56        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C4 PFHpA       | 76        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C4 PFOA        | 90        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C5 PFNA        | 85        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C2 PFDA        | 113       |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C2 PFUnA       | 81        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C2 PFDoA       | 77        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C2 PFTeDA      | 84        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |
| 13C3 PFBS        | 92        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 18:46 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: W-MW-11**

**Lab Sample ID: 500-251202-14**

**Date Collected: 05/23/24 11:40**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 18O2 PFHxS              | 100              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| 13C4 PFOS               | 111              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| 13C8 FOSA               | 82               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d3-NMeFOSAA             | 82               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d5-NEtFOSAA             | 104              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d-N-MeFOSA-M            | 79               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d-N-EtFOSA-M            | 78               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d7-N-MeFOSE-M           | 73               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| d9-N-EtFOSE-M           | 76               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| M2-4:2 FTS              | 157              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| M2-6:2 FTS              | 172              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| M2-8:2 FTS              | 247              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| 13C3 HFPO-DA            | 91               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |
| 13C2 10:2 FTS           | 109              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 18:46  | 1              |



# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-6**  
**Date Collected: 05/23/24 12:10**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-15**  
**Matrix: Water**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                      | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|--|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| <b>Perfluorobutanoic acid (PFBA)</b>         | <b>7.5</b>       |                  | 4.5           | 2.1  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluoropentanoic acid (PFPeA)              | <0.44            |                  | 1.8           | 0.44 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorohexanoic acid (PFHxA)</b>        | <b>2.3</b>       |                  | 1.8           | 0.52 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluoroheptanoic acid (PFHpA)</b>       | <b>2.1</b>       |                  | 1.8           | 0.22 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorooctanoic acid (PFOA)</b>         | <b>14</b>        |                  | 1.8           | 0.76 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorononanoic acid (PFNA)</b>         | <b>0.32</b>      | <b>J</b>         | 1.8           | 0.24 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorodecanoic acid (PFDA)                | <0.28            |                  | 1.8           | 0.28 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluoroundecanoic acid (PFUnA)             | <0.98            |                  | 1.8           | 0.98 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorododecanoic acid (PFDoA)             | <0.49            |                  | 1.8           | 0.49 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorotridecanoic acid (PFTrDA)           | <1.2             |                  | 1.8           | 1.2  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorotetradecanoic acid (PFTeA)          | <0.65            |                  | 1.8           | 0.65 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorobutanesulfonic acid (PFBS)</b>   | <b>2.6</b>       |                  | 1.8           | 0.18 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluoropentanesulfonic acid (PFPeS)</b> | <b>1.3</b>       | <b>J I</b>       | 1.8           | 0.27 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorohexanesulfonic acid (PFHxS)</b>  | <b>4.2</b>       | <b>I</b>         | 1.8           | 0.51 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluoroheptanesulfonic acid (PFHpS)        | <0.17            |                  | 1.8           | 0.17 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Perfluorooctanesulfonic acid (PFOS)</b>   | <b>4.7</b>       |                  | 1.8           | 0.48 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorononanesulfonic acid (PFNS)          | <0.33            |                  | 1.8           | 0.33 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorodecanesulfonic acid (PFDS)          | <0.29            |                  | 1.8           | 0.29 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorododecanesulfonic acid (PFDoS)       | <0.87            |                  | 1.8           | 0.87 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| Perfluorooctanesulfonamide (FOSA)            | <0.88            |                  | 1.8           | 0.88 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NEtFOSA                                      | <0.78            |                  | 1.8           | 0.78 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NMeFOSA                                      | <0.38            |                  | 1.8           | 0.38 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NMeFOSAA                                     | <1.1             |                  | 4.5           | 1.1  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NEtFOSAA                                     | <1.2             |                  | 4.5           | 1.2  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NMeFOSE                                      | <1.3             |                  | 3.6           | 1.3  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| NEtFOSE                                      | <0.76            |                  | 1.8           | 0.76 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 4:2 FTS                                      | <0.21            |                  | 1.8           | 0.21 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 6:2 FTS                                      | <2.2             |                  | 4.5           | 2.2  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 8:2 FTS                                      | <0.41            |                  | 1.8           | 0.41 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)  | <0.36            |                  | 1.8           | 0.36 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| HFPO-DA (GenX)                               | <1.3             |                  | 3.6           | 1.3  | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 9Cl-PF3ONS                                   | <0.21            |                  | 1.8           | 0.21 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 11Cl-PF3OUdS                                 | <0.29            |                  | 1.8           | 0.29 | ng/L |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| <b>Isotope Dilution</b>                      | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 13C4 PFBA                                    | 25               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C5 PFPeA                                   | 46               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 PFHxA                                   | 66               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C4 PFHpA                                   | 78               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C4 PFOA                                    | 84               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C5 PFNA                                    | 81               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 PFDA                                    | 84               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 PFUnA                                   | 72               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 PFDoA                                   | 55               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 PFTeDA                                  | 52               |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/07/24 12:31  | 1              |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-251202-15**

**Date Collected: 05/23/24 12:10**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C3 PFBS               | 79               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 18O2 PFHxS              | 79               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C4 PFOS               | 98               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C8 FOSA               | 76               |                  | 10 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d3-NMeFOSAA             | 79               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d5-NEtFOSAA             | 84               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d-N-MeFOSA-M            | 69               |                  | 10 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d-N-EtFOSA-M            | 71               |                  | 10 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d7-N-MeFOSE-M           | 57               |                  | 10 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| d9-N-EtFOSE-M           | 55               |                  | 10 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| M2-4:2 FTS              | 120              |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| M2-6:2 FTS              | 157              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| M2-8:2 FTS              | 125              |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C3 HFPO-DA            | 76               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |
| 13C2 10:2 FTS           | 79               |                  | 25 - 150      | 06/01/24 08:39  | 06/07/24 12:31  | 1              |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-251202-16**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)               | 7.2    |           | 4.4 | 2.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluoropentanoic acid (PFPeA)             | 4.0    |           | 1.8 | 0.43 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorohexanoic acid (PFHxA)              | 2.4    |           | 1.8 | 0.51 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluoroheptanoic acid (PFHpA)             | 1.1    | J         | 1.8 | 0.22 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorooctanoic acid (PFOA)               | 4.5    |           | 1.8 | 0.75 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorononanoic acid (PFNA)               | <0.24  |           | 1.8 | 0.24 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorodecanoic acid (PFDA)               | <0.27  |           | 1.8 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluoroundecanoic acid (PFUnA)            | <0.97  |           | 1.8 | 0.97 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorododecanoic acid (PFDoA)            | <0.49  |           | 1.8 | 0.49 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorotridecanoic acid (PFTrDA)          | <1.2   |           | 1.8 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorotetradecanoic acid (PFTeA)         | <0.65  |           | 1.8 | 0.65 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorobutanesulfonic acid (PFBS)         | <0.18  |           | 1.8 | 0.18 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)       | <0.27  |           | 1.8 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)        | 3.5    | I         | 1.8 | 0.50 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)       | <0.17  |           | 1.8 | 0.17 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorooctanesulfonic acid (PFOS)         | <0.48  |           | 1.8 | 0.48 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorononanesulfonic acid (PFNS)         | <0.33  |           | 1.8 | 0.33 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorodecanesulfonic acid (PFDS)         | <0.28  |           | 1.8 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.86  |           | 1.8 | 0.86 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.87  |           | 1.8 | 0.87 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NETFOSA                                     | <0.77  |           | 1.8 | 0.77 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NMeFOSA                                     | <0.38  |           | 1.8 | 0.38 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NMeFOSAA                                    | <1.1   |           | 4.4 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NETFOSAA                                    | <1.2   |           | 4.4 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NMeFOSE                                     | <1.2   |           | 3.5 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| NETFOSE                                     | <0.75  |           | 1.8 | 0.75 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 4:2 FTS                                     | <0.21  |           | 1.8 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 6:2 FTS                                     | <2.2   |           | 4.4 | 2.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 8:2 FTS                                     | <0.41  |           | 1.8 | 0.41 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.35  |           | 1.8 | 0.35 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| HFPO-DA (GenX)                              | <1.3   |           | 3.5 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 9Cl-PF3ONS                                  | <0.21  |           | 1.8 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 11Cl-PF3OUdS                                | <0.28  |           | 1.8 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:07 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 29        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C5 PFPeA       | 48        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C2 PFHxA       | 54        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C4 PFHpA       | 71        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C4 PFOA        | 83        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C5 PFNA        | 71        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C2 PFDA        | 96        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C2 PFUnA       | 79        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C2 PFDoA       | 72        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C2 PFTeDA      | 77        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |
| 13C3 PFBS        | 88        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:07 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-251202-16**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 18O2 PFHxS              | 86               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| 13C4 PFOS               | 102              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| 13C8 FOSA               | 72               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d3-NMeFOSAA             | 72               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d5-NEtFOSAA             | 82               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d-N-MeFOSA-M            | 88               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d-N-EtFOSA-M            | 80               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d7-N-MeFOSE-M           | 72               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| d9-N-EtFOSE-M           | 74               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| M2-4:2 FTS              | 123              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| M2-6:2 FTS              | 154              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| M2-8:2 FTS              | 185              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| 13C3 HFPO-DA            | 85               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |
| 13C2 10:2 FTS           | 108              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:07  | 1              |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 500-251202-17**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)               | <2.1   |           | 4.4 | 2.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluoropentanoic acid (PFPeA)             | <0.43  |           | 1.8 | 0.43 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorohexanoic acid (PFHxA)              | <0.51  |           | 1.8 | 0.51 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluoroheptanoic acid (PFHpA)             | <0.22  |           | 1.8 | 0.22 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorooctanoic acid (PFOA)               | <0.75  |           | 1.8 | 0.75 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorononanoic acid (PFNA)               | <0.24  |           | 1.8 | 0.24 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorodecanoic acid (PFDA)               | <0.27  |           | 1.8 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluoroundecanoic acid (PFUnA)            | <0.97  |           | 1.8 | 0.97 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorododecanoic acid (PFDoA)            | <0.48  |           | 1.8 | 0.48 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorotridecanoic acid (PFTrDA)          | <1.1   |           | 1.8 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorotetradecanoic acid (PFTeA)         | <0.64  |           | 1.8 | 0.64 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorobutanesulfonic acid (PFBS)         | <0.18  |           | 1.8 | 0.18 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)       | <0.26  |           | 1.8 | 0.26 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)        | <0.50  |           | 1.8 | 0.50 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)       | <0.17  |           | 1.8 | 0.17 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorooctanesulfonic acid (PFOS)         | <0.47  |           | 1.8 | 0.47 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorononanesulfonic acid (PFNS)         | <0.33  |           | 1.8 | 0.33 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorodecanesulfonic acid (PFDS)         | <0.28  |           | 1.8 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.85  |           | 1.8 | 0.85 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.86  |           | 1.8 | 0.86 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NEtFOSA                                     | <0.76  |           | 1.8 | 0.76 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NMeFOSA                                     | <0.38  |           | 1.8 | 0.38 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NMeFOSAA                                    | <1.1   |           | 4.4 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NEtFOSAA                                    | <1.1   |           | 4.4 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NMeFOSE                                     | <1.2   |           | 3.5 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| NEtFOSE                                     | <0.75  |           | 1.8 | 0.75 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 4:2 FTS                                     | <0.21  |           | 1.8 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 6:2 FTS                                     | <2.2   |           | 4.4 | 2.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 8:2 FTS                                     | <0.40  |           | 1.8 | 0.40 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.35  |           | 1.8 | 0.35 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| HFPO-DA (GenX)                              | <1.3   |           | 3.5 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 9Cl-PF3ONS                                  | <0.21  |           | 1.8 | 0.21 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 11Cl-PF3OUdS                                | <0.28  |           | 1.8 | 0.28 | ng/L |   | 06/01/24 08:39 | 06/05/24 19:18 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 99        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C5 PFPeA       | 98        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C2 PFHxA       | 94        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C4 PFHpA       | 99        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C4 PFOA        | 100       |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C5 PFNA        | 95        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C2 PFDA        | 90        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C2 PFUnA       | 89        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C2 PFDoA       | 89        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C2 PFTeDA      | 89        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 13C3 PFBS        | 95        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 19:18 | 1       |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 500-251202-17**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C4 PFOS               | 79               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| 13C8 FOSA               | 99               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d3-NMeFOSAA             | 87               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d5-NEtFOSAA             | 104              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d-N-MeFOSA-M            | 91               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d-N-EtFOSA-M            | 84               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d7-N-MeFOSE-M           | 81               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| d9-N-EtFOSE-M           | 83               |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| M2-4:2 FTS              | 83               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| M2-6:2 FTS              | 109              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| M2-8:2 FTS              | 99               |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| 13C3 HFPO-DA            | 110              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |
| 13C2 10:2 FTS           | 138              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:18  | 1              |

# Client Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-251202-18**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                                     | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|---|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Perfluorobutanoic acid (PFBA)               | <2.2             |                  | 4.7           | 2.2  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluoropentanoic acid (PFPeA)             | <0.46            |                  | 1.9           | 0.46 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorohexanoic acid (PFHxA)              | <0.54            |                  | 1.9           | 0.54 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluoroheptanoic acid (PFHpA)             | <0.23            |                  | 1.9           | 0.23 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorooctanoic acid (PFOA)               | <0.79            |                  | 1.9           | 0.79 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorononanoic acid (PFNA)               | <0.25            |                  | 1.9           | 0.25 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorodecanoic acid (PFDA)               | <0.29            |                  | 1.9           | 0.29 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluoroundecanoic acid (PFUnA)            | <1.0             |                  | 1.9           | 1.0  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorododecanoic acid (PFDoA)            | <0.51            |                  | 1.9           | 0.51 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorotridecanoic acid (PFTrDA)          | <1.2             |                  | 1.9           | 1.2  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorotetradecanoic acid (PFTeA)         | <0.68            |                  | 1.9           | 0.68 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorobutanesulfonic acid (PFBS)         | <0.19            |                  | 1.9           | 0.19 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluoropentanesulfonic acid (PFPeS)       | <0.28            |                  | 1.9           | 0.28 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorohexanesulfonic acid (PFHxS)        | <0.53            |                  | 1.9           | 0.53 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluoroheptanesulfonic acid (PFHpS)       | <0.18            |                  | 1.9           | 0.18 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorooctanesulfonic acid (PFOS)         | <0.50            |                  | 1.9           | 0.50 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorononanesulfonic acid (PFNS)         | <0.35            |                  | 1.9           | 0.35 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorodecanesulfonic acid (PFDS)         | <0.30            |                  | 1.9           | 0.30 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.91            |                  | 1.9           | 0.91 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| Perfluorooctanesulfonamide (FOSA)           | <0.92            |                  | 1.9           | 0.92 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NEtFOSA                                     | <0.81            |                  | 1.9           | 0.81 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NMeFOSA                                     | <0.40            |                  | 1.9           | 0.40 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NMeFOSAA                                    | <1.1             |                  | 4.7           | 1.1  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NEtFOSAA                                    | <1.2             |                  | 4.7           | 1.2  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NMeFOSE                                     | <1.3             |                  | 3.7           | 1.3  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| NEtFOSE                                     | <0.79            |                  | 1.9           | 0.79 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 4:2 FTS                                     | <0.22            |                  | 1.9           | 0.22 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 6:2 FTS                                     | <2.3             |                  | 4.7           | 2.3  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 8:2 FTS                                     | <0.43            |                  | 1.9           | 0.43 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.37            |                  | 1.9           | 0.37 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| HFPO-DA (GenX)                              | <1.4             |                  | 3.7           | 1.4  | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 9Cl-PF3ONS                                  | <0.22            |                  | 1.9           | 0.22 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 11Cl-PF3OUdS                                | <0.30            |                  | 1.9           | 0.30 | ng/L |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| <i>Isotope Dilution</i>                     | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |      |      |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C4 PFBA                                   | 117              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C5 PFPeA                                  | 124              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 PFHxA                                  | 112              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C4 PFHpA                                  | 136              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C4 PFOA                                   | 123              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C5 PFNA                                   | 125              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 PFDA                                   | 119              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 PFUnA                                  | 112              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 PFDoA                                  | 120              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 PFTeDA                                 | 105              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C3 PFBS                                   | 110              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 18O2 PFHxS                                  | 116              |                  | 25 - 150      |      |      |   | 06/01/24 08:39  | 06/05/24 19:28  | 1              |

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# Client Sample Results

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-251202-18**

**Date Collected: 05/23/24 00:00**

**Matrix: Water**

**Date Received: 05/25/24 09:40**

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)**

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C4 PFOS               | 104              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C8 FOSA               | 119              |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d3-NMeFOSAA             | 118              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d5-NEtFOSAA             | 120              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d-N-MeFOSA-M            | 105              |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d-N-EtFOSA-M            | 105              |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d7-N-MeFOSE-M           | 111              |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| d9-N-EtFOSE-M           | 100              |                  | 10 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| M2-4:2 FTS              | 120              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| M2-6:2 FTS              | 117              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| M2-8:2 FTS              | 132              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C3 HFPO-DA            | 133              |                  | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |
| 13C2 10:2 FTS           | 166              | *5+              | 25 - 150      | 06/01/24 08:39  | 06/05/24 19:28  | 1              |



# Definitions/Glossary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| *+        | LCS and/or LCSD is outside acceptance limits, high biased.   |
| B         | Compound was found in the blank and sample.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### LCMS

| Qualifier | Qualifier Description  |
|-----------|--|
| *5+       | Isotope dilution analyte is outside acceptance limits, high biased.  |
| I         | Value is EMPC (estimated maximum possible concentration).  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# QC Association Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## GC/MS VOA

### Analysis Batch: 770521

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-251202-1     | MPS-P-6            | Total/NA  | Water  | 8260D  |            |
| 500-251202-2     | MPS-P-7            | Total/NA  | Water  | 8260D  |            |
| 500-251202-3     | MW-11              | Total/NA  | Water  | 8260D  |            |
| 500-251202-4     | MW-12              | Total/NA  | Water  | 8260D  |            |
| 500-251202-5     | MW-13              | Total/NA  | Water  | 8260D  |            |
| 500-251202-6     | PZ-11              | Total/NA  | Water  | 8260D  |            |
| 500-251202-7     | PZ-12              | Total/NA  | Water  | 8260D  |            |
| 500-251202-8     | PZ-13              | Total/NA  | Water  | 8260D  |            |
| 500-251202-9     | Duplicate          | Total/NA  | Water  | 8260D  |            |
| 500-251202-10    | Equipment Blank    | Total/NA  | Water  | 8260D  |            |
| 500-251202-11    | Trip Blank         | Total/NA  | Water  | 8260D  |            |
| MB 500-770521/7  | Method Blank       | Total/NA  | Water  | 8260D  |            |
| LCS 500-770521/4 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |

### Analysis Batch: 770591

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 500-251202-1 - DL | MPS-P-6            | Total/NA  | Water  | 8260D  |            |
| MB 500-770591/7   | Method Blank       | Total/NA  | Water  | 8260D  |            |
| LCS 500-770591/4  | Lab Control Sample | Total/NA  | Water  | 8260D  |            |

## LCMS

### Prep Batch: 768693

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-251202-12       | W-MW-4S            | Total/NA  | Water  | 3535   |            |
| 500-251202-13       | W-MW-10            | Total/NA  | Water  | 3535   |            |
| 500-251202-14       | W-MW-11            | Total/NA  | Water  | 3535   |            |
| 500-251202-15       | MW-6               | Total/NA  | Water  | 3535   |            |
| 500-251202-16       | Duplicate          | Total/NA  | Water  | 3535   |            |
| 500-251202-17       | Equipment Blank    | Total/NA  | Water  | 3535   |            |
| 500-251202-18       | Trip Blank         | Total/NA  | Water  | 3535   |            |
| MB 320-768693/1-A   | Method Blank       | Total/NA  | Water  | 3535   |            |
| LCS 320-768693/3-A  | Lab Control Sample | Total/NA  | Water  | 3535   |            |
| LLCS 320-768693/2-A | Lab Control Sample | Total/NA  | Water  | 3535   |            |

### Analysis Batch: 770080

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|------------------|-----------|--------|----------------|------------|
| 500-251202-12     | W-MW-4S          | Total/NA  | Water  | 537 (modified) | 768693     |
| 500-251202-13     | W-MW-10          | Total/NA  | Water  | 537 (modified) | 768693     |
| 500-251202-14     | W-MW-11          | Total/NA  | Water  | 537 (modified) | 768693     |
| 500-251202-16     | Duplicate        | Total/NA  | Water  | 537 (modified) | 768693     |
| 500-251202-17     | Equipment Blank  | Total/NA  | Water  | 537 (modified) | 768693     |
| 500-251202-18     | Trip Blank       | Total/NA  | Water  | 537 (modified) | 768693     |
| MB 320-768693/1-A | Method Blank     | Total/NA  | Water  | 537 (modified) | 768693     |

### Analysis Batch: 770336

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|---------------------|--------------------|-----------|--------|----------------|------------|
| 500-251202-15       | MW-6               | Total/NA  | Water  | 537 (modified) | 768693     |
| LCS 320-768693/3-A  | Lab Control Sample | Total/NA  | Water  | 537 (modified) | 768693     |
| LLCS 320-768693/2-A | Lab Control Sample | Total/NA  | Water  | 537 (modified) | 768693     |

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# Surrogate Summary

Client: Sigma Group Inc, The  
 Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID     | Client Sample ID   | DCA      | BFB      | DBFM     | TOL      |
|-------------------|--------------------|----------|----------|----------|----------|
|                   |                    | (75-126) | (72-124) | (75-120) | (75-120) |
| 500-251202-1      | MPS-P-6            | 94       | 100      | 90       | 94       |
| 500-251202-1 - DL | MPS-P-6            | 119      | 98       | 116      | 101      |
| 500-251202-2      | MPS-P-7            | 95       | 95       | 97       | 93       |
| 500-251202-3      | MW-11              | 98       | 102      | 95       | 89       |
| 500-251202-4      | MW-12              | 96       | 95       | 100      | 90       |
| 500-251202-5      | MW-13              | 94       | 100      | 96       | 90       |
| 500-251202-6      | PZ-11              | 97       | 90       | 104      | 94       |
| 500-251202-7      | PZ-12              | 98       | 90       | 102      | 96       |
| 500-251202-8      | PZ-13              | 96       | 101      | 95       | 94       |
| 500-251202-9      | Duplicate          | 99       | 97       | 94       | 93       |
| 500-251202-10     | Equipment Blank    | 95       | 99       | 95       | 93       |
| 500-251202-11     | Trip Blank         | 98       | 100      | 93       | 94       |
| LCS 500-770521/4  | Lab Control Sample | 88       | 94       | 89       | 92       |
| LCS 500-770591/4  | Lab Control Sample | 104      | 88       | 107      | 107      |
| MB 500-770521/7   | Method Blank       | 98       | 99       | 96       | 96       |
| MB 500-770591/7   | Method Blank       | 114      | 93       | 112      | 104      |

#### Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 500-770521/7**  
**Matrix: Water**  
**Analysis Batch: 770521**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                     | MB     | MB        | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
|                             | Result | Qualifier |      |      |      |   |          |                |         |
| 1,1,1,2-Tetrachloroethane   | <0.67  |           | 1.0  | 0.67 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1,1-Trichloroethane       | <0.45  |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1,2,2-Tetrachloroethane   | <0.65  |           | 1.0  | 0.65 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1,2-Trichloroethane       | <0.73  |           | 1.0  | 0.73 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1-Dichloroethane          | <0.36  |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1-Dichloroethene          | <0.48  |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,1-Dichloropropene         | <0.33  |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2,3-Trichlorobenzene      | <0.35  |           | 1.0  | 0.35 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2,3-Trichloropropane      | <1.5   |           | 2.0  | 1.5  | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2,4-Trichlorobenzene      | <0.31  |           | 1.0  | 0.31 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2,4-Trimethylbenzene      | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2-Dibromo-3-Chloropropane | <3.9   |           | 5.0  | 3.9  | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2-Dibromoethane           | <0.56  |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2-Dichlorobenzene         | <0.48  |           | 1.0  | 0.48 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2-Dichloroethane          | <0.58  |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,2-Dichloropropane         | <0.37  |           | 1.0  | 0.37 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,3,5-Trimethylbenzene      | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,3-Dichlorobenzene         | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,3-Dichloropropane         | <0.56  |           | 1.0  | 0.56 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 1,4-Dichlorobenzene         | <0.45  |           | 1.0  | 0.45 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 2,2-Dichloropropane         | <0.48  |           | 5.0  | 0.48 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 2-Chlorotoluene             | <0.36  |           | 1.0  | 0.36 | ug/L |   |          | 06/02/24 13:33 | 1       |
| 4-Chlorotoluene             | <0.34  |           | 1.0  | 0.34 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Benzene                     | <0.18  |           | 0.50 | 0.18 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Bromobenzene                | <0.60  |           | 1.0  | 0.60 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Bromochloromethane          | <0.50  |           | 1.0  | 0.50 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Bromodichloromethane        | <0.57  |           | 1.0  | 0.57 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Bromoform                   | <0.96  |           | 1.0  | 0.96 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Bromomethane                | <1.8   |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 13:33 | 1       |
| Carbon tetrachloride        | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Chlorobenzene               | <0.41  |           | 1.0  | 0.41 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Chloroethane                | <0.47  |           | 5.0  | 0.47 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Chloroform                  | <0.92  |           | 2.0  | 0.92 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Chloromethane               | <0.79  |           | 5.0  | 0.79 | ug/L |   |          | 06/02/24 13:33 | 1       |
| cis-1,2-Dichloroethene      | <0.42  |           | 1.0  | 0.42 | ug/L |   |          | 06/02/24 13:33 | 1       |
| cis-1,3-Dichloropropene     | <0.52  |           | 1.0  | 0.52 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Dibromochloromethane        | <0.83  |           | 1.0  | 0.83 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Dibromomethane              | <0.58  |           | 1.0  | 0.58 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Dichlorodifluoromethane     | <1.8   |           | 3.0  | 1.8  | ug/L |   |          | 06/02/24 13:33 | 1       |
| Ethylbenzene                | <0.20  |           | 0.50 | 0.20 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Hexachlorobutadiene         | <0.54  |           | 1.0  | 0.54 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Isopropyl ether             | <0.38  |           | 1.0  | 0.38 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Isopropylbenzene            | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Methyl tert-butyl ether     | <0.43  |           | 1.0  | 0.43 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Methylene Chloride          | <3.6   |           | 5.0  | 3.6  | ug/L |   |          | 06/02/24 13:33 | 1       |
| Naphthalene                 | 0.677  | J         | 1.0  | 0.44 | ug/L |   |          | 06/02/24 13:33 | 1       |
| n-Butylbenzene              | <0.33  |           | 1.0  | 0.33 | ug/L |   |          | 06/02/24 13:33 | 1       |
| N-Propylbenzene             | <0.32  |           | 1.0  | 0.32 | ug/L |   |          | 06/02/24 13:33 | 1       |

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# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 500-770521/7**  
**Matrix: Water**  
**Analysis Batch: 770521**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                   | MB MB  |           | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
|                           | Result | Qualifier |      |      |      |   |          |                |         |
| p-Isopropyltoluene        | <0.29  |           | 1.0  | 0.29 | ug/L |   |          | 06/02/24 13:33 | 1       |
| sec-Butylbenzene          | <0.27  |           | 1.0  | 0.27 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Styrene                   | <0.31  |           | 1.0  | 0.31 | ug/L |   |          | 06/02/24 13:33 | 1       |
| tert-Butylbenzene         | <0.26  |           | 1.0  | 0.26 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Tetrachloroethene         | <0.39  |           | 1.0  | 0.39 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Toluene                   | <0.21  |           | 0.50 | 0.21 | ug/L |   |          | 06/02/24 13:33 | 1       |
| trans-1,2-Dichloroethene  | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 13:33 | 1       |
| trans-1,3-Dichloropropene | <0.63  |           | 1.0  | 0.63 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Trichloroethene           | <0.15  |           | 0.50 | 0.15 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Trichlorofluoromethane    | <0.44  |           | 1.0  | 0.44 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Vinyl chloride            | <0.47  |           | 1.0  | 0.47 | ug/L |   |          | 06/02/24 13:33 | 1       |
| Xylenes, Total            | <0.30  |           | 1.0  | 0.30 | ug/L |   |          | 06/02/24 13:33 | 1       |

| Surrogate                    | MB MB     |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 126 |          | 06/02/24 13:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 72 - 124 |          | 06/02/24 13:33 | 1       |
| Dibromofluoromethane (Surr)  | 96        |           | 75 - 120 |          | 06/02/24 13:33 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 75 - 120 |          | 06/02/24 13:33 | 1       |

**Lab Sample ID: LCS 500-770521/4**  
**Matrix: Water**  
**Analysis Batch: 770521**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                     | Spike Added | LCS LCS |           | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|---------|-----------|------|---|------|-------------|
|                             |             | Result  | Qualifier |      |   |      |             |
| 1,1,1,2-Tetrachloroethane   | 50.0        | 46.0    |           | ug/L |   | 92   | 70 - 125    |
| 1,1,1-Trichloroethane       | 50.0        | 47.1    |           | ug/L |   | 94   | 70 - 125    |
| 1,1,1,2-Tetrachloroethane   | 50.0        | 44.3    |           | ug/L |   | 89   | 62 - 140    |
| 1,1,2-Trichloroethane       | 50.0        | 48.4    |           | ug/L |   | 97   | 71 - 130    |
| 1,1-Dichloroethane          | 50.0        | 42.6    |           | ug/L |   | 85   | 70 - 125    |
| 1,1-Dichloroethene          | 50.0        | 45.0    |           | ug/L |   | 90   | 67 - 122    |
| 1,1-Dichloropropene         | 50.0        | 47.1    |           | ug/L |   | 94   | 70 - 121    |
| 1,2,3-Trichlorobenzene      | 50.0        | 30.7    |           | ug/L |   | 61   | 51 - 145    |
| 1,2,3-Trichloropropane      | 50.0        | 45.6    |           | ug/L |   | 91   | 50 - 133    |
| 1,2,4-Trichlorobenzene      | 50.0        | 30.1    |           | ug/L |   | 60   | 57 - 137    |
| 1,2,4-Trimethylbenzene      | 50.0        | 49.1    |           | ug/L |   | 98   | 70 - 123    |
| 1,2-Dibromo-3-Chloropropane | 50.0        | 40.6    |           | ug/L |   | 81   | 56 - 123    |
| 1,2-Dibromoethane           | 50.0        | 51.3    |           | ug/L |   | 103  | 70 - 125    |
| 1,2-Dichlorobenzene         | 50.0        | 45.7    |           | ug/L |   | 91   | 70 - 125    |
| 1,2-Dichloroethane          | 50.0        | 46.4    |           | ug/L |   | 93   | 68 - 127    |
| 1,2-Dichloropropane         | 50.0        | 47.5    |           | ug/L |   | 95   | 67 - 130    |
| 1,3,5-Trimethylbenzene      | 50.0        | 48.5    |           | ug/L |   | 97   | 70 - 123    |
| 1,3-Dichlorobenzene         | 50.0        | 47.1    |           | ug/L |   | 94   | 70 - 125    |
| 1,3-Dichloropropane         | 50.0        | 48.4    |           | ug/L |   | 97   | 62 - 136    |
| 1,4-Dichlorobenzene         | 50.0        | 48.7    |           | ug/L |   | 97   | 70 - 120    |
| 2,2-Dichloropropane         | 50.0        | 41.5    |           | ug/L |   | 83   | 58 - 139    |
| 2-Chlorotoluene             | 50.0        | 47.0    |           | ug/L |   | 94   | 70 - 125    |
| 4-Chlorotoluene             | 50.0        | 52.6    |           | ug/L |   | 105  | 68 - 124    |
| Benzene                     | 50.0        | 46.3    |           | ug/L |   | 93   | 70 - 120    |

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# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 500-770521/4**  
**Matrix: Water**  
**Analysis Batch: 770521**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Bromobenzene              | 50.0        | 46.1       |               | ug/L |   | 92   | 70 - 122    |
| Bromochloromethane        | 50.0        | 43.1       |               | ug/L |   | 86   | 65 - 122    |
| Bromodichloromethane      | 50.0        | 50.4       |               | ug/L |   | 101  | 69 - 120    |
| Bromoform                 | 50.0        | 58.3       |               | ug/L |   | 117  | 56 - 132    |
| Bromomethane              | 50.0        | 48.6       |               | ug/L |   | 97   | 40 - 152    |
| Carbon tetrachloride      | 50.0        | 47.9       |               | ug/L |   | 96   | 59 - 133    |
| Chlorobenzene             | 50.0        | 47.7       |               | ug/L |   | 95   | 70 - 120    |
| Chloroethane              | 50.0        | 40.2       |               | ug/L |   | 80   | 48 - 136    |
| Chloroform                | 50.0        | 46.7       |               | ug/L |   | 93   | 70 - 120    |
| Chloromethane             | 50.0        | 38.5       |               | ug/L |   | 77   | 56 - 152    |
| cis-1,2-Dichloroethene    | 50.0        | 45.2       |               | ug/L |   | 90   | 70 - 125    |
| cis-1,3-Dichloropropene   | 50.0        | 50.2       |               | ug/L |   | 100  | 64 - 127    |
| Dibromochloromethane      | 50.0        | 51.7       |               | ug/L |   | 103  | 68 - 125    |
| Dibromomethane            | 50.0        | 51.5       |               | ug/L |   | 103  | 70 - 120    |
| Dichlorodifluoromethane   | 50.0        | 32.2       |               | ug/L |   | 64   | 40 - 159    |
| Ethylbenzene              | 50.0        | 50.3       |               | ug/L |   | 101  | 70 - 123    |
| Hexachlorobutadiene       | 50.0        | 28.2       |               | ug/L |   | 56   | 51 - 150    |
| Isopropylbenzene          | 50.0        | 40.8       |               | ug/L |   | 82   | 70 - 126    |
| Methyl tert-butyl ether   | 50.0        | 43.6       |               | ug/L |   | 87   | 55 - 123    |
| Methylene Chloride        | 50.0        | 43.2       |               | ug/L |   | 86   | 69 - 125    |
| Naphthalene               | 50.0        | 30.9       |               | ug/L |   | 62   | 53 - 144    |
| n-Butylbenzene            | 50.0        | 48.5       |               | ug/L |   | 97   | 68 - 125    |
| N-Propylbenzene           | 50.0        | 47.4       |               | ug/L |   | 95   | 69 - 127    |
| p-Isopropyltoluene        | 50.0        | 50.0       |               | ug/L |   | 100  | 70 - 125    |
| sec-Butylbenzene          | 50.0        | 49.3       |               | ug/L |   | 99   | 70 - 123    |
| Styrene                   | 50.0        | 61.7       | *+            | ug/L |   | 123  | 70 - 120    |
| tert-Butylbenzene         | 50.0        | 47.7       |               | ug/L |   | 95   | 70 - 121    |
| Tetrachloroethene         | 50.0        | 42.9       |               | ug/L |   | 86   | 70 - 128    |
| Toluene                   | 50.0        | 46.0       |               | ug/L |   | 92   | 70 - 125    |
| trans-1,2-Dichloroethene  | 50.0        | 46.2       |               | ug/L |   | 92   | 70 - 125    |
| trans-1,3-Dichloropropene | 50.0        | 51.6       |               | ug/L |   | 103  | 62 - 128    |
| Trichloroethene           | 50.0        | 45.0       |               | ug/L |   | 90   | 70 - 125    |
| Trichlorofluoromethane    | 50.0        | 43.2       |               | ug/L |   | 86   | 55 - 128    |
| Vinyl chloride            | 50.0        | 33.3       |               | ug/L |   | 67   | 64 - 126    |
| Xylenes, Total            | 100         | 106        |               | ug/L |   | 106  | 70 - 125    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 88            |               | 75 - 126 |
| 4-Bromofluorobenzene (Surr)  | 94            |               | 72 - 124 |
| Dibromofluoromethane (Surr)  | 89            |               | 75 - 120 |
| Toluene-d8 (Surr)            | 92            |               | 75 - 120 |

**Lab Sample ID: MB 500-770591/7**  
**Matrix: Water**  
**Analysis Batch: 770591**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene | <0.42     |              | 1.0 | 0.42 | ug/L |   |          | 06/03/24 11:23 | 1       |

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# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 500-770591/7**  
**Matrix: Water**  
**Analysis Batch: 770591**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte         | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Isopropyl ether | <0.38     |              | 1.0 | 0.38 | ug/L |   |          | 06/03/24 11:23 | 1       |
| Vinyl chloride  | <0.47     |              | 1.0 | 0.47 | ug/L |   |          | 06/03/24 11:23 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114          |              | 75 - 126 |          | 06/03/24 11:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 93           |              | 72 - 124 |          | 06/03/24 11:23 | 1       |
| Dibromofluoromethane (Surr)  | 112          |              | 75 - 120 |          | 06/03/24 11:23 | 1       |
| Toluene-d8 (Surr)            | 104          |              | 75 - 120 |          | 06/03/24 11:23 | 1       |

**Lab Sample ID: LCS 500-770591/4**  
**Matrix: Water**  
**Analysis Batch: 770591**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| cis-1,2-Dichloroethene | 50.0        | 48.3       |               | ug/L |   | 97   | 70 - 125    |
| Vinyl chloride         | 50.0        | 55.7       |               | ug/L |   | 111  | 64 - 126    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 104           |               | 75 - 126 |
| 4-Bromofluorobenzene (Surr)  | 88            |               | 72 - 124 |
| Dibromofluoromethane (Surr)  | 107           |               | 75 - 120 |
| Toluene-d8 (Surr)            | 107           |               | 75 - 120 |

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 320-768693/1-A**  
**Matrix: Water**  
**Analysis Batch: 770080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| Analyte                               | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)         | <2.4      |              | 5.0 | 2.4  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluoropentanoic acid (PFPeA)       | <0.49     |              | 2.0 | 0.49 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorohexanoic acid (PFHxA)        | <0.58     |              | 2.0 | 0.58 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluoroheptanoic acid (PFHpA)       | <0.25     |              | 2.0 | 0.25 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorooctanoic acid (PFOA)         | <0.85     |              | 2.0 | 0.85 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorononanoic acid (PFNA)         | <0.27     |              | 2.0 | 0.27 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorodecanoic acid (PFDA)         | <0.31     |              | 2.0 | 0.31 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluoroundecanoic acid (PFUnA)      | <1.1      |              | 2.0 | 1.1  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorododecanoic acid (PFDoA)      | <0.55     |              | 2.0 | 0.55 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorotridecanoic acid (PFTTrDA)   | <1.3      |              | 2.0 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorotetradecanoic acid (PFTeA)   | <0.73     |              | 2.0 | 0.73 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorobutanesulfonic acid (PFBS)   | <0.20     |              | 2.0 | 0.20 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluoropentanesulfonic acid (PFPeS) | <0.30     |              | 2.0 | 0.30 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)  | <0.57     |              | 2.0 | 0.57 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.19     |              | 2.0 | 0.19 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorooctanesulfonic acid (PFOS)   | <0.54     |              | 2.0 | 0.54 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorononanesulfonic acid (PFNS)   | <0.37     |              | 2.0 | 0.37 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |

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# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: MB 320-768693/1-A**  
**Matrix: Water**  
**Analysis Batch: 770080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| Analyte                                     | MB     | MB        | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|-----|------|------|---|----------------|----------------|---------|
|   | Result | Qualifier |     |      |      |   |                |                |         |
| Perfluorodecanesulfonic acid (PFDS)         | <0.32  |           | 2.0 | 0.32 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)      | <0.97  |           | 2.0 | 0.97 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| Perfluorooctanesulfonamide (FOSA)           | <0.98  |           | 2.0 | 0.98 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NEtFOSA                                     | <0.87  |           | 2.0 | 0.87 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NMeFOSA                                     | <0.43  |           | 2.0 | 0.43 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NMeFOSAA                                    | <1.2   |           | 5.0 | 1.2  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NEtFOSAA                                    | <1.3   |           | 5.0 | 1.3  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NMeFOSE                                     | <1.4   |           | 4.0 | 1.4  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| NEtFOSE                                     | <0.85  |           | 2.0 | 0.85 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 4:2 FTS                                     | <0.24  |           | 2.0 | 0.24 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 6:2 FTS                                     | <2.5   |           | 5.0 | 2.5  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 8:2 FTS                                     | <0.46  |           | 2.0 | 0.46 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.40  |           | 2.0 | 0.40 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| HFPO-DA (GenX)                              | <1.5   |           | 4.0 | 1.5  | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 9Cl-PF3ONS                                  | <0.24  |           | 2.0 | 0.24 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 11Cl-PF3OUdS                                | <0.32  |           | 2.0 | 0.32 | ng/L |   | 06/01/24 08:39 | 06/05/24 17:54 | 1       |

| Isotope Dilution | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
|                  | %Recovery | Qualifier |          |                |                |         |
| 13C4 PFBA        | 94        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C5 PFPeA       | 96        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 PFHxA       | 96        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C4 PFHpA       | 106       |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C4 PFOA        | 92        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C5 PFNA        | 95        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 PFDA        | 91        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 PFUnA       | 93        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 PFDoA       | 99        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 PFTeDA      | 80        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C3 PFBS        | 86        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 18O2 PFHxS       | 92        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C4 PFOS        | 69        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C8 FOSA        | 78        |           | 10 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d3-NMeFOSAA      | 90        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d5-NEtFOSAA      | 94        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d-N-MeFOSA-M     | 63        |           | 10 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d-N-EtFOSA-M     | 69        |           | 10 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d7-N-MeFOSE-M    | 88        |           | 10 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| d9-N-EtFOSE-M    | 88        |           | 10 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| M2-4:2 FTS       | 94        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| M2-6:2 FTS       | 95        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| M2-8:2 FTS       | 96        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C3 HFPO-DA     | 86        |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |
| 13C2 10:2 FTS    | 116       |           | 25 - 150 | 06/01/24 08:39 | 06/05/24 17:54 | 1       |



# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-768693/3-A**  
**Matrix: Water**  
**Analysis Batch: 770336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| Analyte                                     | Spike Added | LCS Result       | LCS Qualifier    | Unit | D | %Rec | %Rec Limits   |
|---|-------------|------------------|------------------|------|---|------|---------------|
|   |             |                  |                  |      |   |      |               |
| Perfluorobutanoic acid (PFBA)               | 160         | 169              |                  | ng/L |   | 106  | 60 - 135      |
| Perfluoropentanoic acid (PFPeA)             | 160         | 158              |                  | ng/L |   | 99   | 60 - 135      |
| Perfluorohexanoic acid (PFHxA)              | 160         | 158              |                  | ng/L |   | 99   | 60 - 135      |
| Perfluoroheptanoic acid (PFHpA)             | 160         | 146              |                  | ng/L |   | 91   | 60 - 135      |
| Perfluorooctanoic acid (PFOA)               | 160         | 154              |                  | ng/L |   | 96   | 60 - 135      |
| Perfluorononanoic acid (PFNA)               | 160         | 164              |                  | ng/L |   | 102  | 60 - 135      |
| Perfluorodecanoic acid (PFDA)               | 160         | 199              |                  | ng/L |   | 125  | 60 - 135      |
| Perfluoroundecanoic acid (PFUnA)            | 160         | 162              |                  | ng/L |   | 101  | 60 - 135      |
| Perfluorododecanoic acid (PFDoA)            | 160         | 167              |                  | ng/L |   | 104  | 60 - 135      |
| Perfluorotridecanoic acid (PFTTrDA)         | 160         | 175              |                  | ng/L |   | 109  | 60 - 135      |
| Perfluorotetradecanoic acid (PFTeA)         | 160         | 185              |                  | ng/L |   | 116  | 60 - 135      |
| Perfluorobutanesulfonic acid (PFBS)         | 142         | 149              |                  | ng/L |   | 105  | 60 - 135      |
| Perfluoropentanesulfonic acid (PFPeS)       | 150         | 153              |                  | ng/L |   | 102  | 60 - 135      |
| Perfluorohexanesulfonic acid (PFHxS)        | 146         | 156              |                  | ng/L |   | 107  | 60 - 135      |
| Perfluoroheptanesulfonic acid (PFHpS)       | 153         | 160              |                  | ng/L |   | 105  | 60 - 135      |
| Perfluorooctanesulfonic acid (PFOS)         | 149         | 159              |                  | ng/L |   | 107  | 60 - 135      |
| Perfluorononanesulfonic acid (PFNS)         | 154         | 149              |                  | ng/L |   | 97   | 60 - 135      |
| Perfluorodecanesulfonic acid (PFDS)         | 154         | 161              |                  | ng/L |   | 105  | 60 - 135      |
| Perfluorododecanesulfonic acid (PFDoS)      | 155         | 140              |                  | ng/L |   | 90   | 60 - 135      |
| Perfluorooctanesulfonamide (FOSA)           | 160         | 157              |                  | ng/L |   | 98   | 60 - 135      |
| NEtFOSA                                     | 160         | 171              |                  | ng/L |   | 107  | 60 - 135      |
| NMeFOSA                                     | 160         | 178              |                  | ng/L |   | 111  | 60 - 135      |
| NMeFOSAA                                    | 160         | 181              |                  | ng/L |   | 113  | 60 - 135      |
| NEtFOSAA                                    | 160         | 162              |                  | ng/L |   | 101  | 60 - 135      |
| NMeFOSE                                     | 160         | 168              |                  | ng/L |   | 105  | 60 - 135      |
| NEtFOSE                                     | 160         | 181              |                  | ng/L |   | 113  | 60 - 135      |
| 4:2 FTS                                     | 150         | 152              |                  | ng/L |   | 101  | 60 - 135      |
| 6:2 FTS                                     | 152         | 159              |                  | ng/L |   | 104  | 60 - 135      |
| 8:2 FTS                                     | 154         | 168              |                  | ng/L |   | 109  | 60 - 135      |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 151         | 144              |                  | ng/L |   | 95   | 60 - 135      |
| HFPO-DA (GenX)                              | 160         | 152              |                  | ng/L |   | 95   | 60 - 135      |
| 9CI-PF3ONS                                  | 149         | 161              |                  | ng/L |   | 108  | 60 - 135      |
| 11CI-PF3OUdS                                | 151         | 164              |                  | ng/L |   | 109  | 60 - 135      |
|   |             | <b>LCS</b>       | <b>LCS</b>       |      |   |      |               |
| <b>Isotope Dilution</b>                     |             | <b>%Recovery</b> | <b>Qualifier</b> |      |   |      | <b>Limits</b> |
| 13C4 PFBA                                   |             | 67               |                  |      |   |      | 25 - 150      |
| 13C5 PFPeA                                  |             | 75               |                  |      |   |      | 25 - 150      |
| 13C2 PFHxA                                  |             | 73               |                  |      |   |      | 25 - 150      |

# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-768693/3-A**  
**Matrix: Water**  
**Analysis Batch: 770336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| <i>Isotope Dilution</i> | <i>LCS</i>       | <i>LCS</i>       | <i>Limits</i> |
|-------------------------|------------------|------------------|---------------|
|                         | <i>%Recovery</i> | <i>Qualifier</i> |               |
| 13C4 PFHpA              | 87               |                  | 25 - 150      |
| 13C4 PFOA               | 77               |                  | 25 - 150      |
| 13C5 PFNA               | 67               |                  | 25 - 150      |
| 13C2 PFDA               | 66               |                  | 25 - 150      |
| 13C2 PFUnA              | 67               |                  | 25 - 150      |
| 13C2 PFDoA              | 67               |                  | 25 - 150      |
| 13C2 PFTeDA             | 60               |                  | 25 - 150      |
| 13C3 PFBS               | 77               |                  | 25 - 150      |
| 18O2 PFHxS              | 69               |                  | 25 - 150      |
| 13C4 PFOS               | 79               |                  | 25 - 150      |
| 13C8 FOSA               | 67               |                  | 10 - 150      |
| d3-NMeFOSAA             | 79               |                  | 25 - 150      |
| d5-NEtFOSAA             | 78               |                  | 25 - 150      |
| d-N-MeFOSA-M            | 53               |                  | 10 - 150      |
| d-N-EtFOSA-M            | 51               |                  | 10 - 150      |
| d7-N-MeFOSE-M           | 70               |                  | 10 - 150      |
| d9-N-EtFOSE-M           | 62               |                  | 10 - 150      |
| M2-4:2 FTS              | 75               |                  | 25 - 150      |
| M2-6:2 FTS              | 79               |                  | 25 - 150      |
| M2-8:2 FTS              | 58               |                  | 25 - 150      |
| 13C3 HFPO-DA            | 74               |                  | 25 - 150      |
| 13C2 10:2 FTS           | 80               |                  | 25 - 150      |

**Lab Sample ID: LLCS 320-768693/2-A**  
**Matrix: Water**  
**Analysis Batch: 770336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| <i>Analyte</i>                        | <i>Spike</i> | <i>LLCS</i>   | <i>LLCS</i>      | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec</i> | <i>Limits</i> |
|---------------------------------------|--------------|---------------|------------------|-------------|----------|-------------|-------------|---------------|
|                                       | <i>Added</i> | <i>Result</i> | <i>Qualifier</i> |             |          |             |             |               |
| Perfluorobutanoic acid (PFBA)         | 8.00         | 7.75          |                  | ng/L        |          | 97          |             | 50 - 150      |
| Perfluoropentanoic acid (PFPeA)       | 8.00         | 8.35          |                  | ng/L        |          | 104         |             | 50 - 150      |
| Perfluorohexanoic acid (PFHxA)        | 8.00         | 8.25          |                  | ng/L        |          | 103         |             | 50 - 150      |
| Perfluoroheptanoic acid (PFHpA)       | 8.00         | 7.46          |                  | ng/L        |          | 93          |             | 50 - 150      |
| Perfluorooctanoic acid (PFOA)         | 8.00         | 7.79          |                  | ng/L        |          | 97          |             | 50 - 150      |
| Perfluorononanoic acid (PFNA)         | 8.00         | 8.72          |                  | ng/L        |          | 109         |             | 50 - 150      |
| Perfluorodecanoic acid (PFDA)         | 8.00         | 7.40          |                  | ng/L        |          | 92          |             | 50 - 150      |
| Perfluoroundecanoic acid (PFUnA)      | 8.00         | 9.29          |                  | ng/L        |          | 116         |             | 50 - 150      |
| Perfluorododecanoic acid (PFDoA)      | 8.00         | 8.49          |                  | ng/L        |          | 106         |             | 50 - 150      |
| Perfluorotridecanoic acid (PFTTrDA)   | 8.00         | 8.41          |                  | ng/L        |          | 105         |             | 50 - 150      |
| Perfluorotetradecanoic acid (PFTeA)   | 8.00         | 8.86          |                  | ng/L        |          | 111         |             | 50 - 150      |
| Perfluorobutanesulfonic acid (PFBS)   | 7.10         | 7.14          |                  | ng/L        |          | 101         |             | 50 - 150      |
| Perfluoropentanesulfonic acid (PFPeS) | 7.52         | 7.12          |                  | ng/L        |          | 95          |             | 50 - 150      |
| Perfluorohexanesulfonic acid (PFHxS)  | 7.30         | 7.55          |                  | ng/L        |          | 103         |             | 50 - 150      |
| Perfluoroheptanesulfonic acid (PFHpS) | 7.63         | 8.95          |                  | ng/L        |          | 117         |             | 50 - 150      |

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# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LLCS 320-768693/2-A**  
**Matrix: Water**  
**Analysis Batch: 770336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 768693**

| Analyte                                     | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|-------------|-------------|----------------|------|---|------|-------------|
| Perfluorooctanesulfonic acid (PFOS)         | 7.44        | 9.25        |                | ng/L |   | 124  | 50 - 150    |
| Perfluorononanesulfonic acid (PFNS)         | 7.70        | 8.89        |                | ng/L |   | 116  | 50 - 150    |
| Perfluorodecanesulfonic acid (PFDS)         | 7.71        | 9.52        |                | ng/L |   | 123  | 50 - 150    |
| Perfluorododecanesulfonic acid (PFDoS)      | 7.76        | 9.45        |                | ng/L |   | 122  | 50 - 150    |
| Perfluorooctanesulfonamide (FOSA)           | 8.00        | 8.35        |                | ng/L |   | 104  | 50 - 150    |
| NEtFOSA                                     | 8.00        | 8.86        |                | ng/L |   | 111  | 50 - 150    |
| NMeFOSA                                     | 8.00        | 7.48        |                | ng/L |   | 94   | 50 - 150    |
| NMeFOSAA                                    | 8.00        | 8.15        |                | ng/L |   | 102  | 50 - 150    |
| NEtFOSAA                                    | 8.00        | 8.14        |                | ng/L |   | 102  | 50 - 150    |
| NMeFOSE                                     | 8.00        | 7.73        |                | ng/L |   | 97   | 50 - 150    |
| NEtFOSE                                     | 8.00        | 8.30        |                | ng/L |   | 104  | 50 - 150    |
| 4:2 FTS                                     | 7.50        | 8.09        |                | ng/L |   | 108  | 50 - 150    |
| 6:2 FTS                                     | 7.62        | 7.52        |                | ng/L |   | 99   | 50 - 150    |
| 8:2 FTS                                     | 7.68        | 8.17        |                | ng/L |   | 106  | 50 - 150    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 7.57        | 8.99        |                | ng/L |   | 119  | 50 - 150    |
| HFPO-DA (GenX)                              | 8.00        | 7.85        |                | ng/L |   | 98   | 50 - 150    |
| 9Cl-PF3ONS                                  | 7.47        | 8.18        |                | ng/L |   | 109  | 50 - 150    |
| 11Cl-PF3OUdS                                | 7.55        | 8.21        |                | ng/L |   | 109  | 50 - 150    |

| Isotope Dilution | LLCS      |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 13C4 PFBA        | 109       |           | 25 - 150 |
| 13C5 PFPeA       | 103       |           | 25 - 150 |
| 13C2 PFHxA       | 115       |           | 25 - 150 |
| 13C4 PFHpA       | 127       |           | 25 - 150 |
| 13C4 PFOA        | 105       |           | 25 - 150 |
| 13C5 PFNA        | 99        |           | 25 - 150 |
| 13C2 PFDA        | 97        |           | 25 - 150 |
| 13C2 PFUnA       | 97        |           | 25 - 150 |
| 13C2 PFDoA       | 110       |           | 25 - 150 |
| 13C2 PFTeDA      | 94        |           | 25 - 150 |
| 13C3 PFBS        | 111       |           | 25 - 150 |
| 18O2 PFHxS       | 106       |           | 25 - 150 |
| 13C4 PFOS        | 94        |           | 25 - 150 |
| 13C8 FOSA        | 101       |           | 10 - 150 |
| d3-NMeFOSAA      | 120       |           | 25 - 150 |
| d5-NEtFOSAA      | 126       |           | 25 - 150 |
| d-N-MeFOSA-M     | 80        |           | 10 - 150 |
| d-N-EtFOSA-M     | 72        |           | 10 - 150 |
| d7-N-MeFOSE-M    | 100       |           | 10 - 150 |
| d9-N-EtFOSE-M    | 94        |           | 10 - 150 |
| M2-4:2 FTS       | 121       |           | 25 - 150 |
| M2-6:2 FTS       | 113       |           | 25 - 150 |
| M2-8:2 FTS       | 115       |           | 25 - 150 |
| 13C3 HFPO-DA     | 106       |           | 25 - 150 |

# QC Sample Results

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-768693/2-A  
Matrix: Water  
Analysis Batch: 770336

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 768693

| <i>Isotope Dilution</i> | <i>LLCS</i>      | <i>LLCS</i>      | <i>Limits</i> |
|-------------------------|------------------|------------------|---------------|
|                         | <i>%Recovery</i> | <i>Qualifier</i> |               |
| 13C2 10:2 FTS           | 124              |                  | 25 - 150      |

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# Lab Chronicle

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Client Sample ID: MPS-P-6

Date Collected: 05/23/24 10:20

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 16:43       |
| Total/NA  | Analysis   | 8260D        | DL  | 10              | 770591       | SW1     | EET CHI | 06/03/24 13:48       |

## Client Sample ID: MPS-P-7

Date Collected: 05/23/24 10:15

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 17:07       |

## Client Sample ID: MW-11

Date Collected: 05/23/24 09:00

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 17:31       |

## Client Sample ID: MW-12

Date Collected: 05/23/24 08:35

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 17:54       |

## Client Sample ID: MW-13

Date Collected: 05/23/24 09:35

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 18:18       |

## Client Sample ID: PZ-11

Date Collected: 05/23/24 09:20

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 19:06       |

## Client Sample ID: PZ-12

Date Collected: 05/23/24 08:30

Date Received: 05/25/24 09:40

## Lab Sample ID: 500-251202-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 19:29       |

# Lab Chronicle

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

**Client Sample ID: PZ-13**  
**Date Collected: 05/23/24 09:50**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-8**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 19:53       |

**Client Sample ID: Duplicate**  
**Date Collected: 05/23/24 00:00**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-9**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 20:17       |

**Client Sample ID: Equipment Blank**  
**Date Collected: 05/23/24 00:00**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-10**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 14:44       |

**Client Sample ID: Trip Blank**  
**Date Collected: 05/23/24 00:00**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-11**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 770521       | W1T     | EET CHI | 06/02/24 14:21       |

**Client Sample ID: W-MW-4S**  
**Date Collected: 05/23/24 12:30**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-12**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 18:26       |

**Client Sample ID: W-MW-10**  
**Date Collected: 05/23/24 12:50**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-13**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 18:36       |

**Client Sample ID: W-MW-11**  
**Date Collected: 05/23/24 11:40**  
**Date Received: 05/25/24 09:40**

**Lab Sample ID: 500-251202-14**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 18:46       |

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# Lab Chronicle

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Client Sample ID: MW-6

Date Collected: 05/23/24 12:10

Date Received: 05/25/24 09:40

Lab Sample ID: 500-251202-15

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770336       | K1S     | EET SAC | 06/07/24 12:31       |

## Client Sample ID: Duplicate

Date Collected: 05/23/24 00:00

Date Received: 05/25/24 09:40

Lab Sample ID: 500-251202-16

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 19:07       |

## Client Sample ID: Equipment Blank

Date Collected: 05/23/24 00:00

Date Received: 05/25/24 09:40

Lab Sample ID: 500-251202-17

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 19:18       |

## Client Sample ID: Trip Blank

Date Collected: 05/23/24 00:00

Date Received: 05/25/24 09:40

Lab Sample ID: 500-251202-18

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 3535           |     |                 | 768693       | VP      | EET SAC | 06/01/24 08:39       |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 770080       | S1C     | EET SAC | 06/05/24 19:28       |

### Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Wisconsin | State   | 999580010             | 08-31-24        |

## Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Wisconsin | State   | 998204680             | 08-31-25        |

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**Eurofins Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Phone (708) 534-5211

**Chain of Custody Record**

|   |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
|---|------------------------|--|--------------|--|---|-----------------------------------|----------------------------|--------------------------------|-----------|-----------------------------------|----------------------------|----------------------------|--|-----------------|--|-----------|--|----------------------------|--|----------------------|--|---------------------------------------|--|
| <b>Client Information</b>   |                        | Sampler: <i>TOM McLOY</i>  |              | Lab PM: Bracken, Jodie V   |   | Carrier Tracking No(s)            |                            | COC No: 500-124610-46001 2     |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Client Contact: Grant Zwiefelhofer  |                        | Phone: <i>414-588-7943</i>   |              | E-Mail: Jodie.Bracken@ET.EurofinsUS.com  |   | State of Origin: <i>WI</i>        |                            | Page: <i>2 of 2</i>            |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Company: Sigma Group Inc, The   |                        | PWSID:   |              | <b>Analysis Requested</b>  |   |                                   |                            |                                |           | Job #: <i>14411</i>               |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Address: 1300 West Canal Street   |                        | Due Date Requested   |              | <table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Perform MS/MSD (Yes or No)</td><td></td></tr> <tr><td>VOC - Wisconsin</td><td></td></tr> <tr><td>PFAS (33)</td><td></td></tr> <tr><td>Total Number of containers</td><td></td></tr> </table> |   |                                   |                            |                                |           | Field Filtered Sample (Yes or No) |                            | Perform MS/MSD (Yes or No) |  | VOC - Wisconsin |  | PFAS (33) |  | Total Number of containers |  | TAT Requested (days) |  | Preservation Codes: <i>500-251202</i> |  |
| Field Filtered Sample (Yes or No)   |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Perform MS/MSD (Yes or No)  |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| VOC - Wisconsin   |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| PFAS (33)   |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Total Number of containers  |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| City: Milwaukee   |                        | Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No  |              | Other:   |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| State Zip: WI, 53233  |                        | PO #:  |              | Purchase Order not required  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Phone: 414-643-4126   |                        | WO #:  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Email: <a href="mailto:gzwiefelhofer@thesigmagroup.com">gzwiefelhofer@thesigmagroup.com</a> |                        | Project #:   |              | 50020741   |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Project Name: Whitefish LF - 14411 Wisconsin GW   |                        | SSOW#:   |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Site:   |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <b>Sample Identification</b>  |                        | Sample Date  | Sample Time  | Sample Type (C=Comp, G=grab)   | Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | VOC - Wisconsin                | PFAS (33) | Total Number of containers        | Special Instructions/Note: |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Preservation Code:  |                        |  |              |  |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>12</i>   | <i>W-MW-45</i>         | <i>5/23/24</i>   | <i>12:30</i> |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>13</i>   | <i>W-MW-10</i>         | <i>5/23/24</i>   | <i>12:50</i> |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>14</i>   | <i>W-MW-11</i>         | <i>5/23/24</i>   | <i>11:40</i> |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>15</i>   | <i>MW-6</i>            | <i>5/23/24</i>   | <i>12:10</i> |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>16</i>   | <i>Duplicate</i>       | <i>5/23/24</i>   | <i>-</i>     |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>17</i>   | <i>Equipment Blank</i> | <i>5/23/24</i>   | <i>-</i>     |  | Water   | N                                 | N                          | X                              |           | 2                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <i>18</i>   | <i>TRIP Blank</i>      | <i>-</i>   | <i>-</i>     |  | Water   | N                                 | N                          | X                              |           | 1                                 |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| <b>Possible Hazard Identification</b>   |                        | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |              | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>   |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Deliverable Requested I, II, III, IV, Other (specify)                                       |                        |  |              | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months   |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Empty Kit Relinquished by   |                        | Date   |              | Time   |   | Method of Shipment                |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Relinquished by: <i>[Signature]</i>   |                        | Date/Time: <i>5/24/24</i>  |              | Company: <i>[Signature]</i>  |   | Received by: <i>[Signature]</i>   |                            | Date/Time: <i>5/24/24 1579</i> |           | Company: <i>Eurofins</i>          |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Relinquished by: <i>[Signature]</i>   |                        | Date/Time: <i>5/24/24 1630</i>   |              | Company: <i>Eurofins</i>   |   | Received by: <i>[Signature]</i>   |                            | Date/Time: <i>5/25/24 0940</i> |           | Company: <i>ETHA</i>              |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Relinquished by:  |                        | Date/Time:   |              | Company:   |   | Received by:                      |                            | Date/Time:                     |           | Company:                          |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |
| Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No              |                        | Custody Seal No  |              | Cooler Temperature(s) °C and Other Remarks   |   |                                   |                            |                                |           |                                   |                            |                            |  |                 |  |           |  |                            |  |                      |  |                                       |  |



500-251202 Waybi

RECEIPT  
UNIVERSITY PARK, IL 60484  
UNITED STATES US

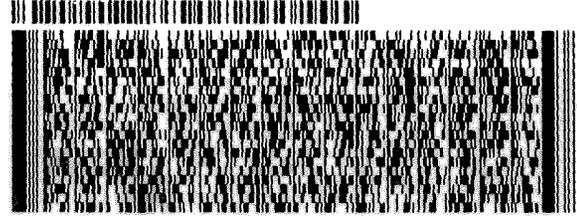
ACTWGT: 44.90 LB  
CAD: 07803077/CAFE3755  
BILL RECIPIENT

Part# 43098-434 NTW EXP 31/25  
5955C4/24SR/AFB

TO **SAMPLE RECEIPT**  
**EUROFINS - CHICAGO**  
**2417 BOND ST.**

**UNIVERSITY PARK IL 60484**

(708) 634-6200 REF:  
INVT DEPT:  
PO:

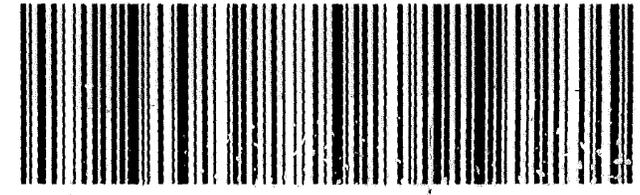


1 of 2  
TRK# 7414 0291 0800  
0201  
## MASTER ##

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**XO JOTA**

**60484**  
**IL-US ORD**



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# Login Sample Receipt Checklist

Client: Sigma Group Inc, The

Job Number: 500-251202-1

**Login Number: 251202**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 1.1     |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

# Login Sample Receipt Checklist

Client: Sigma Group Inc, The

Job Number: 500-251202-1

**Login Number: 251202**

**List Number: 2**

**Creator: Simmons, Jason C**

**List Source: Eurofins Sacramento**

**List Creation: 05/30/24 11:57 AM**

| Question   | Answer | Comment                            |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True   |                                    |
| The cooler's custody seal, if present, is intact.                                | True   | 2460903                            |
| Sample custody seals, if present, are intact.                                    | N/A    |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                    |
| Samples were received on ice.  | True   |                                    |
| Cooler Temperature is acceptable.  | True   |                                    |
| Cooler Temperature is recorded.  | True   | 1.2c                               |
| COC is present.  | True   |                                    |
| COC is filled out in ink and legible.  | True   |                                    |
| COC is filled out with all pertinent information.                                | True   |                                    |
| Is the Field Sampler's name present on COC?                                      | N/A    | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC.          | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                    |
| Sample containers have legible labels.   | True   |                                    |
| Containers are not broken or leaking.  | True   |                                    |
| Sample collection date/times are provided.                                       | True   |                                    |
| Appropriate sample containers are used.  | True   |                                    |
| Sample bottles are completely filled.  | True   |                                    |
| Sample Preservation Verified.  | N/A    |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                    |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |                                    |
| Multiphasic samples are not present.   | True   |                                    |
| Samples do not require splitting or compositing.                                 | True   |                                    |
| Residual Chlorine Checked.   | N/A    |                                    |

# Isotope Dilution Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

|                     |                    | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                   |                    |                  |                  |                  |                   |
|---------------------|--------------------|---|-------------------|-------------------|--------------------|------------------|------------------|------------------|-------------------|
| Lab Sample ID       | Client Sample ID   | PFBA<br>(25-150)                                      | PFPeA<br>(25-150) | PFHxA<br>(25-150) | C4PFHA<br>(25-150) | PFOA<br>(25-150) | PFNA<br>(25-150) | PFDA<br>(25-150) | PFUnA<br>(25-150) |
| 500-251202-12       | W-MW-4S            | 53  | 67                | 76                | 91                 | 91               | 93               | 86               | 78                |
| 500-251202-13       | W-MW-10            | 67  | 69                | 69                | 83                 | 85               | 86               | 79               | 81                |
| 500-251202-14       | W-MW-11            | 37  | 49                | 56                | 76                 | 90               | 85               | 113              | 81                |
| 500-251202-15       | MW-6               | 25  | 46                | 66                | 78                 | 84               | 81               | 84               | 72                |
| 500-251202-16       | Duplicate          | 29  | 48                | 54                | 71                 | 83               | 71               | 96               | 79                |
| 500-251202-17       | Equipment Blank    | 99  | 98                | 94                | 99                 | 100              | 95               | 90               | 89                |
| 500-251202-18       | Trip Blank         | 117   | 124               | 112               | 136                | 123              | 125              | 119              | 112               |
| LCS 320-768693/3-A  | Lab Control Sample | 67  | 75                | 73                | 87                 | 77               | 67               | 66               | 67                |
| LLCS 320-768693/2-A | Lab Control Sample | 109   | 103               | 115               | 127                | 105              | 99               | 97               | 97                |
| MB 320-768693/1-A   | Method Blank       | 94  | 96                | 96                | 106                | 92               | 95               | 91               | 93                |

|                     |                    | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                    |                   |                  |                   |                     |                     |
|---------------------|--------------------|---|-------------------|--------------------|-------------------|------------------|-------------------|---------------------|---------------------|
| Lab Sample ID       | Client Sample ID   | PFDaA<br>(25-150)                                     | PFTDA<br>(25-150) | C3PFBS<br>(25-150) | PFHxS<br>(25-150) | PFOS<br>(25-150) | PFOSA<br>(10-150) | d3NMFOS<br>(25-150) | d5NEFOS<br>(25-150) |
| 500-251202-12       | W-MW-4S            | 82  | 69                | 73                 | 82                | 87               | 86                | 81                  | 81                  |
| 500-251202-13       | W-MW-10            | 74  | 62                | 82                 | 82                | 94               | 76                | 86                  | 90                  |
| 500-251202-14       | W-MW-11            | 77  | 84                | 92                 | 100               | 111              | 82                | 82                  | 104                 |
| 500-251202-15       | MW-6               | 55  | 52                | 79                 | 79                | 98               | 76                | 79                  | 84                  |
| 500-251202-16       | Duplicate          | 72  | 77                | 88                 | 86                | 102              | 72                | 72                  | 82                  |
| 500-251202-17       | Equipment Blank    | 89  | 89                | 95                 | 94                | 79               | 99                | 87                  | 104                 |
| 500-251202-18       | Trip Blank         | 120   | 105               | 110                | 116               | 104              | 119               | 118                 | 120                 |
| LCS 320-768693/3-A  | Lab Control Sample | 67  | 60                | 77                 | 69                | 79               | 67                | 79                  | 78                  |
| LLCS 320-768693/2-A | Lab Control Sample | 110   | 94                | 111                | 106               | 94               | 101               | 120                 | 126                 |
| MB 320-768693/1-A   | Method Blank       | 99  | 80                | 86                 | 92                | 69               | 78                | 90                  | 94                  |

|                     |                    | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |                  |                  |                     |                     |                     |                    |
|---------------------|--------------------|---|---------------------|------------------|------------------|---------------------|---------------------|---------------------|--------------------|
| Lab Sample ID       | Client Sample ID   | dMeFOSA<br>(10-150)                                   | dEtFOSA<br>(10-150) | NMFM<br>(10-150) | NEFM<br>(10-150) | M242FTS<br>(25-150) | M262FTS<br>(25-150) | M282FTS<br>(25-150) | HFPODA<br>(25-150) |
| 500-251202-12       | W-MW-4S            | 71  | 72                  | 74               | 74               | 107                 | 96                  | 99                  | 76                 |
| 500-251202-13       | W-MW-10            | 60  | 66                  | 69               | 71               | 156 *5+             | 144                 | 288 *5+             | 81                 |
| 500-251202-14       | W-MW-11            | 79  | 78                  | 73               | 76               | 157 *5+             | 172 *5+             | 247 *5+             | 91                 |
| 500-251202-15       | MW-6               | 69  | 71                  | 57               | 55               | 120                 | 157 *5+             | 125                 | 76                 |
| 500-251202-16       | Duplicate          | 88  | 80                  | 72               | 74               | 123                 | 154 *5+             | 185 *5+             | 85                 |
| 500-251202-17       | Equipment Blank    | 91  | 84                  | 81               | 83               | 83                  | 109                 | 99                  | 110                |
| 500-251202-18       | Trip Blank         | 105   | 105                 | 111              | 100              | 120                 | 117                 | 132                 | 133                |
| LCS 320-768693/3-A  | Lab Control Sample | 53  | 51                  | 70               | 62               | 75                  | 79                  | 58                  | 74                 |
| LLCS 320-768693/2-A | Lab Control Sample | 80  | 72                  | 100              | 94               | 121                 | 113                 | 115                 | 106                |
| MB 320-768693/1-A   | Method Blank       | 63  | 69                  | 88               | 88               | 94                  | 95                  | 96                  | 86                 |

|                     |                    | M102FTS<br>(25-150) |
|---------------------|--------------------|---------------------|
| 500-251202-12       | W-MW-4S            | 94                  |
| 500-251202-13       | W-MW-10            | 101                 |
| 500-251202-14       | W-MW-11            | 109                 |
| 500-251202-15       | MW-6               | 79                  |
| 500-251202-16       | Duplicate          | 108                 |
| 500-251202-17       | Equipment Blank    | 138                 |
| 500-251202-18       | Trip Blank         | 166 *5+             |
| LCS 320-768693/3-A  | Lab Control Sample | 80                  |
| LLCS 320-768693/2-A | Lab Control Sample | 124                 |
| MB 320-768693/1-A   | Method Blank       | 116                 |

# Isotope Dilution Summary

Client: Sigma Group Inc, The  
Project/Site: Whitefish LF - 14411 2Q24

Job ID: 500-251202-1

## Surrogate Legend

---

PFBA = 13C4 PFBA  
PFPeA = 13C5 PFPeA  
PFHxA = 13C2 PFHxA  
C4PFHA = 13C4 PFHpA  
PFOA = 13C4 PFOA  
PFNA = 13C5 PFNA  
PFDA = 13C2 PFDA  
PFUnA = 13C2 PFUnA  
PFDoA = 13C2 PFDoA  
PFTDA = 13C2 PFTeDA  
C3PFBS = 13C3 PFBS  
PFHxS = 18O2 PFHxS  
PFOS = 13C4 PFOS  
PFOSA = 13C8 FOSA  
d3NMFOS = d3-NMeFOSAA  
d5NEFOS = d5-NEtFOSAA  
dMeFOSA = d-N-MeFOSA-M  
dEtFOSA = d-N-EtFOSA-M  
NMFm = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
M242FTS = M2-4:2 FTS  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
HFPODA = 13C3 HFPO-DA  
M102FTS = 13C2 10:2 FTS

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Beacon Environmental

526 Underwood Lane  
Bel Air, MD 21014 USA  
1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 240430R03

Laboratory Work Order: 0007804

**Project Description:**

Former Whitefish Bay Landfill  
Milwaukee, WI

Client PO No.: 14411

Prepared for:

Grant Zwiefelhofer  
**The Sigma Group**

1300 West Canal Street  
Milwaukee, WI 53233

---

Ryan W. Schneider  
Senior Project Manager

June 20, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

---

Steven C. Thornley  
Laboratory Director

---

Peter B. Kelly  
Quality Manager

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**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

### Sample Summary

| Lab Sample ID                                      | Client Sample ID | Received   | Analysis        | Matrix      |
|--|------------------|------------|-----------------|-------------|
| 0007804-01<br>Sampler Type: Beacon Passive Sampler | IA-01R           | 06/17/2024 | TO-17 (Passive) | Indoor Air  |
| 0007804-02<br>Sampler Type: Beacon Passive Sampler | IA-02R           | 06/17/2024 | TO-17 (Passive) | Indoor Air  |
| 0007804-03<br>Sampler Type: Beacon Passive Sampler | OA-01            | 06/17/2024 | TO-17 (Passive) | Ambient Air |

#### Project Completeness

**Samples Received:** 3  
**Samples Analyzed:** 3

**The Sigma Group**  
1300 West Canal Street  
Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

### *Case Narrative*

Beacon Environmental provided thermally conditioned Beacon Samplers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in  $\mu\text{g}/\text{m}^3$ . Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling*.

Beacon reports results and reporting limits to three significant digits.

#### **Reporting Limits (RLs) for EPA Method TO-17**

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

#### **Calibration Verification**

All continuing calibration verification (CCV) values are within  $\pm 30\%$  of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

#### **Internal Standards and Surrogates**

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

#### **Blank Contamination**

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

#### **Laboratory Control Samples**

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

#### **Discussion**

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

**The Sigma Group**  
1300 West Canal Street  
Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

## *Analytical Results*

**The Sigma Group**  
1300 West Canal Street  
Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

## *Detailed Analytical Results*

**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

Lab Sample ID: 0007804-01

**IA-01R**

Method: TO-17 (Passive)

Indoor Air

| Analyte                       | CAS#       | Result<br>(µg/m <sup>3</sup> ) | Q               | LOD<br>(µg/m <sup>3</sup> ) | LOQ<br>(µg/m <sup>3</sup> ) | Analyzed         | File ID      |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|-----------------------------|------------------|--------------|
| Vinyl Chloride                | 75-01-4    | <0.466                         | U               | 0.466                       | 0.933                       | 06/18/2024 11:35 | Ka24061805.D |
| trans-1,2-Dichloroethene      | 156-60-5   | <0.859                         | U               | 0.859                       | 1.72                        | 06/18/2024 11:35 | Ka24061805.D |
| cis-1,2-Dichloroethene        | 156-59-2   | <0.713                         | U               | 0.713                       | 1.43                        | 06/18/2024 11:35 | Ka24061805.D |
| Trichloroethene               | 79-01-6    | <1.14                          | U               | 1.14                        | 2.29                        | 06/18/2024 11:35 | Ka24061805.D |
| Tetrachloroethene             | 127-18-4   | <0.921                         | U               | 0.921                       | 1.84                        | 06/18/2024 11:35 | Ka24061805.D |
| Analyte                       | CAS#       | % Recovery                     | Recovery Limits | Q                           |                             | Analyzed         | File ID      |
| Surrogate: 1,2-DCA-d4         | 17060-07-0 | 90.9%                          | 70-130          |                             |                             | 06/18/2024 11:35 | Ka24061805.D |
| Surrogate: Toluene-d8         | 2037-26-5  | 97.4%                          | 70-130          |                             |                             | 06/18/2024 11:35 | Ka24061805.D |
| Surrogate: Bromofluorobenzene | 460-00-4   | 95.1%                          | 70-130          |                             |                             | 06/18/2024 11:35 | Ka24061805.D |

**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

Lab Sample ID: 0007804-02

**IA-02R**

Method: TO-17 (Passive)

Indoor Air

| Analyte                       | CAS#       | Result<br>(µg/m <sup>3</sup> ) | Q               | LOD<br>(µg/m <sup>3</sup> ) | LOQ<br>(µg/m <sup>3</sup> ) | Analyzed         | File ID      |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|-----------------------------|------------------|--------------|
| Vinyl Chloride                | 75-01-4    | <0.467                         | U               | 0.467                       | 0.935                       | 06/18/2024 12:04 | Ka24061806.D |
| trans-1,2-Dichloroethene      | 156-60-5   | <0.861                         | U               | 0.861                       | 1.72                        | 06/18/2024 12:04 | Ka24061806.D |
| cis-1,2-Dichloroethene        | 156-59-2   | <0.714                         | U               | 0.714                       | 1.43                        | 06/18/2024 12:04 | Ka24061806.D |
| Trichloroethene               | 79-01-6    | <1.15                          | U               | 1.15                        | 2.29                        | 06/18/2024 12:04 | Ka24061806.D |
| Tetrachloroethene             | 127-18-4   | <0.924                         | U               | 0.924                       | 1.85                        | 06/18/2024 12:04 | Ka24061806.D |
| Analyte                       | CAS#       | % Recovery                     | Recovery Limits | Q                           |                             | Analyzed         | File ID      |
| Surrogate: 1,2-DCA-d4         | 17060-07-0 | 92.0%                          | 70-130          |                             |                             | 06/18/2024 12:04 | Ka24061806.D |
| Surrogate: Toluene-d8         | 2037-26-5  | 92.6%                          | 70-130          |                             |                             | 06/18/2024 12:04 | Ka24061806.D |
| Surrogate: Bromofluorobenzene | 460-00-4   | 94.6%                          | 70-130          |                             |                             | 06/18/2024 12:04 | Ka24061806.D |



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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

Lab Sample ID: 0007804-03

**OA-01**

Method: TO-17 (Passive)

Ambient Air

| Analyte                       | CAS#       | Result<br>(µg/m <sup>3</sup> ) | Q               | LOD<br>(µg/m <sup>3</sup> ) | LOQ<br>(µg/m <sup>3</sup> ) | Analyzed         | File ID      |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|-----------------------------|------------------|--------------|
| Vinyl Chloride                | 75-01-4    | <0.467                         | U               | 0.467                       | 0.934                       | 06/18/2024 12:32 | Ka24061807.D |
| trans-1,2-Dichloroethene      | 156-60-5   | <0.860                         | U               | 0.860                       | 1.72                        | 06/18/2024 12:32 | Ka24061807.D |
| cis-1,2-Dichloroethene        | 156-59-2   | <0.714                         | U               | 0.714                       | 1.43                        | 06/18/2024 12:32 | Ka24061807.D |
| Trichloroethene               | 79-01-6    | <1.15                          | U               | 1.15                        | 2.29                        | 06/18/2024 12:32 | Ka24061807.D |
| Tetrachloroethene             | 127-18-4   | <0.923                         | U               | 0.923                       | 1.85                        | 06/18/2024 12:32 | Ka24061807.D |
| Analyte                       | CAS#       | % Recovery                     | Recovery Limits | Q                           |                             | Analyzed         | File ID      |
| Surrogate: 1,2-DCA-d4         | 17060-07-0 | 91.5%                          | 70-130          |                             |                             | 06/18/2024 12:32 | Ka24061807.D |
| Surrogate: Toluene-d8         | 2037-26-5  | 94.9%                          | 70-130          |                             |                             | 06/18/2024 12:32 | Ka24061807.D |
| Surrogate: Bromofluorobenzene | 460-00-4   | 95.5%                          | 70-130          |                             |                             | 06/18/2024 12:32 | Ka24061807.D |

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1300 West Canal Street  
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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

## *QC Information/Summary*

**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
**Site Location:** Milwaukee, WI  
**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24D099 - Instrument: K System - File ID: Ka24043022.D**
***B24D099-ICV1 (LCSD/Second Source Verification/CALV)***

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | 51.8        | 10  | 5   | ng        | 50.0        |               | 104         | 70-130        |     |           |       |
| trans-1,2-Dichloroethene             | 51.7        | 10  | 5   | ng        | 50.0        |               | 103         | 70-130        |     |           |       |
| cis-1,2-Dichloroethene               | 50.8        | 10  | 5   | ng        | 50.0        |               | 102         | 70-130        |     |           |       |
| Trichloroethene                      | 50.6        | 10  | 5   | ng        | 50.0        |               | 101         | 70-130        |     |           |       |
| Tetrachloroethene                    | 50.8        | 10  | 5   | ng        | 50.0        |               | 102         | 70-130        |     |           |       |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>50.3</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>101</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>50.0</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>100</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>48.1</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>96.2</i> | <i>70-130</i> |     |           |       |

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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24D099 - Instrument: K System - File ID: Ka24043024.D**
***B24D099-ICB1 (Lab Blank/Initial Calibration Blank)***

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| trans-1,2-Dichloroethene             | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| cis-1,2-Dichloroethene               | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| Trichloroethene                      | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| Tetrachloroethene                    | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>102</i>  |     |     | <i>ng</i> | <i>100</i>  |               | <i>102</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>103</i>  |     |     | <i>ng</i> | <i>100</i>  |               | <i>103</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>94.5</i> |     |     | <i>ng</i> | <i>100</i>  |               | <i>94.5</i> | <i>70-130</i> |     |           |       |

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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24F050 - Batch: 24F0047 - Instrument: K System - File ID: Ka24061802.D**
**24F0047-BS1 (LCS, Calibration Source Verification)**

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | 38.7        | 10  | 5   | ng        | 50.0        |               | 77.4        | 70-130        |     |           |       |
| trans-1,2-Dichloroethene             | 49.1        | 10  | 5   | ng        | 50.0        |               | 98.2        | 70-130        |     |           |       |
| cis-1,2-Dichloroethene               | 49.7        | 10  | 5   | ng        | 50.0        |               | 99.4        | 70-130        |     |           |       |
| Trichloroethene                      | 49.9        | 10  | 5   | ng        | 50.0        |               | 99.7        | 70-130        |     |           |       |
| Tetrachloroethene                    | 47.7        | 10  | 5   | ng        | 50.0        |               | 95.4        | 70-130        |     |           |       |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>48.7</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>97.4</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>49.5</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>98.9</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>48.6</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>97.1</i> | <i>70-130</i> |     |           |       |

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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24F050 - Batch: 24F0047 - Instrument: K System - File ID: Ka24061803.D**
**24F0047-BLK1 (Lab Blank)**

| Analyte                              | Result      | LOQ   | LOD   | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-------|-------|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | <0.466      | 0.932 | 0.466 | µg/m³     |             |               |             |               |     |           | U     |
| trans-1,2-Dichloroethene             | <0.858      | 1.72  | 0.858 | µg/m³     |             |               |             |               |     |           | U     |
| cis-1,2-Dichloroethene               | <0.712      | 1.42  | 0.712 | µg/m³     |             |               |             |               |     |           | U     |
| Trichloroethene                      | <1.14       | 2.29  | 1.14  | µg/m³     |             |               |             |               |     |           | U     |
| Tetrachloroethene                    | <0.921      | 1.84  | 0.921 | µg/m³     |             |               |             |               |     |           | U     |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>99.2</i> |       |       | <i>ng</i> | <i>100</i>  |               | <i>99.2</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>101</i>  |       |       | <i>ng</i> | <i>100</i>  |               | <i>101</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>93.5</i> |       |       | <i>ng</i> | <i>100</i>  |               | <i>93.5</i> | <i>70-130</i> |     |           |       |

**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

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**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24F050 - Instrument: K System - File ID: Ka24061804.D**
***B24F050-ICV1 (LCSD/Second Source Verification/CALV)***

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | 47.4        | 10  | 5   | ng        | 50.0        |               | 94.7        | 70-130        |     |           |       |
| trans-1,2-Dichloroethene             | 51.1        | 10  | 5   | ng        | 50.0        |               | 102         | 70-130        |     |           |       |
| cis-1,2-Dichloroethene               | 51.0        | 10  | 5   | ng        | 50.0        |               | 102         | 70-130        |     |           |       |
| Trichloroethene                      | 51.1        | 10  | 5   | ng        | 50.0        |               | 102         | 70-130        |     |           |       |
| Tetrachloroethene                    | 49.5        | 10  | 5   | ng        | 50.0        |               | 99.1        | 70-130        |     |           |       |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>48.9</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>97.7</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>50.4</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>101</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>47.8</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>95.7</i> | <i>70-130</i> |     |           |       |

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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24F050 - Instrument: K System - File ID: Ka24061808.D**
***B24F050-CCV1 (LCS, Closing Calibration Verification)***

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | 46.8        | 10  | 5   | ng        | 50.0        |               | 93.5        | 70-130        |     |           |       |
| trans-1,2-Dichloroethene             | 48.5        | 10  | 5   | ng        | 50.0        |               | 97.0        | 70-130        |     |           |       |
| cis-1,2-Dichloroethene               | 49.5        | 10  | 5   | ng        | 50.0        |               | 98.9        | 70-130        |     |           |       |
| Trichloroethene                      | 50.0        | 10  | 5   | ng        | 50.0        |               | 99.9        | 70-130        |     |           |       |
| Tetrachloroethene                    | 47.4        | 10  | 5   | ng        | 50.0        |               | 94.7        | 70-130        |     |           |       |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>49.5</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>99.0</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>50.3</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>101</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>47.6</i> |     |     | <i>ng</i> | <i>50.0</i> |               | <i>95.1</i> | <i>70-130</i> |     |           |       |



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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary*

**Sequence: B24F050 - Instrument: K System - File ID: Ka24061809.D**
***B24F050-CCB1 (Lab Blank)***

| Analyte                              | Result      | LOQ | LOD | Units     | Spike Level | Source Result | %REC        | %REC Limits   | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride                       | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| trans-1,2-Dichloroethene             | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| cis-1,2-Dichloroethene               | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| Trichloroethene                      | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| Tetrachloroethene                    | <5          | 10  | 5   | ng        |             |               |             |               |     |           | U     |
| <i>Surrogate: 1,2-DCA-d4</i>         | <i>99.0</i> |     |     | <i>ng</i> | <i>100</i>  |               | <i>99.0</i> | <i>70-130</i> |     |           |       |
| <i>Surrogate: Toluene-d8</i>         | <i>102</i>  |     |     | <i>ng</i> | <i>100</i>  |               | <i>102</i>  | <i>70-130</i> |     |           |       |
| <i>Surrogate: Bromofluorobenzene</i> | <i>93.3</i> |     |     | <i>ng</i> | <i>100</i>  |               | <i>93.3</i> | <i>70-130</i> |     |           |       |

|   |  |  |
|---|--|--|
| <b>The Sigma Group</b><br>1300 West Canal Street<br>Milwaukee, WI 53233 | <b>Site Name:</b> Former Whitefish Bay Landfill<br><b>Site Location:</b> Milwaukee, WI<br><b>Project Manager:</b> Grant Zwiefelhofer | <b>Beacon Proposal:</b> 240430R03<br><b>Lab Work Order:</b> 0007804<br><b>Reported:</b> 06/20/2024 |
|---|--|--|

*TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary*

**LCS: 24F0047-BS1 File ID: Ka24061802.D**

Analyzed: 6/18/24 10:43

**LCSD: B24F050-ICV1 File ID: Ka24061804.D**

Analyzed: 6/18/24 9:52

| Analyte                  | CAS#     | LCS Result<br>(ng) | %REC<br>Q | Spike Level<br>(ng) | LCSD Result<br>(ng) | %REC   | %REC<br>Limits | RPD   | RPD<br>Limit | Q |
|--------------------------|----------|--------------------|-----------|---------------------|---------------------|--------|----------------|-------|--------------|---|
| Vinyl Chloride           | 75-01-4  | 38.72              | 77.44     | 50                  | 47.35               | 94.70  | 70-130         | 20.05 | 30           |   |
| trans-1,2-Dichloroethene | 156-60-5 | 49.08              | 98.16     | 50                  | 51.07               | 102.00 | 70-130         | 3.97  | 30           |   |
| cis-1,2-Dichloroethene   | 156-59-2 | 49.68              | 99.36     | 50                  | 51.03               | 102.00 | 70-130         | 2.68  | 30           |   |
| Trichloroethene          | 79-01-6  | 49.87              | 99.74     | 50                  | 51.12               | 102.00 | 70-130         | 2.48  | 30           |   |
| Tetrachloroethene        | 127-18-4 | 47.68              | 95.36     | 50                  | 49.53               | 99.10  | 70-130         | 3.81  | 30           |   |

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**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

*Additional QC Information*

**The Sigma Group**  
 1300 West Canal Street  
 Milwaukee, WI 53233

**Site Name:** Former Whitefish Bay Landfill  
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**Project Manager:** Grant Zwiefelhofer

**Beacon Proposal:** 240430R03  
**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

### Sample Result Calculation Summary (Concentration)

#### TO-17 (Passive)

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | Uc<br>Uptake<br>Rate | M<br>Initial Result<br>ng | C<br>Calculated Result<br>µg/m <sup>3</sup> | File ID |
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---|---------|
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---|---------|

**Lab ID:** 0007804-01      **Sample Name:** IA-01R      **Temp (°C):** 25.50

|                          |        |      |       |   |   |              |
|--------------------------|--------|------|-------|---|---|--------------|
| Vinyl Chloride           | 13,037 | 1.00 | 0.822 | U | U | Ka24061805.D |
| trans-1,2-Dichloroethene | 13,037 | 1.00 | 0.447 | U | U | Ka24061805.D |
| cis-1,2-Dichloroethene   | 13,037 | 1.00 | 0.538 | U | U | Ka24061805.D |
| Trichloroethene          | 13,037 | 1.00 | 0.335 | U | U | Ka24061805.D |
| Tetrachloroethene        | 13,037 | 1.00 | 0.416 | U | U | Ka24061805.D |

**Lab ID:** 0007804-02      **Sample Name:** IA-02R      **Temp (°C):** 23.60

|                          |        |      |       |   |   |              |
|--------------------------|--------|------|-------|---|---|--------------|
| Vinyl Chloride           | 13,049 | 1.00 | 0.820 | U | U | Ka24061806.D |
| trans-1,2-Dichloroethene | 13,049 | 1.00 | 0.445 | U | U | Ka24061806.D |
| cis-1,2-Dichloroethene   | 13,049 | 1.00 | 0.536 | U | U | Ka24061806.D |
| Trichloroethene          | 13,049 | 1.00 | 0.334 | U | U | Ka24061806.D |
| Tetrachloroethene        | 13,049 | 1.00 | 0.415 | U | U | Ka24061806.D |

**Lab ID:** 0007804-03      **Sample Name:** OA-01      **Temp (°C):** 25.50

|                          |        |      |       |   |   |              |
|--------------------------|--------|------|-------|---|---|--------------|
| Vinyl Chloride           | 13,020 | 1.00 | 0.822 | U | U | Ka24061807.D |
| trans-1,2-Dichloroethene | 13,020 | 1.00 | 0.447 | U | U | Ka24061807.D |
| cis-1,2-Dichloroethene   | 13,020 | 1.00 | 0.538 | U | U | Ka24061807.D |
| Trichloroethene          | 13,020 | 1.00 | 0.335 | U | U | Ka24061807.D |
| Tetrachloroethene        | 13,020 | 1.00 | 0.416 | U | U | Ka24061807.D |

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**Lab Work Order:** 0007804  
**Reported:** 06/20/2024

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left( \frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

where: C = concentration ( $\mu\text{g}/\text{m}^3$ )  
M = mass (ng)  
DF = dilution factor  
U<sub>c</sub> = uptake rate (ml/min), corrected  
t = sampling time (minutes)  
U = compound specific uptake rate  
T<sub>u</sub> = uptake rate study temperature  
T<sub>s</sub> = sample average temperature

**Note:** T<sub>u</sub> is 16.65°C

*Reference: Federal Register/Vol. 79, No. 125/June 30, 2014*

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**Method Detection and Reporting Limit Calculations (Concentration)**  
**TO-17 (Passive)**

| Analyte | t<br>Sampling Time<br>minutes | DF<br>Dilution<br>Factor | Uc<br>Uptake<br>Rate | M<br>Initial (ng) |     | C<br>Calculated (µg/m³) |     |
|---------|-------------------------------|--------------------------|----------------------|-------------------|-----|-------------------------|-----|
|         |                               |                          |                      | LOQ               | LOD | LOQ                     | LOD |

| Lab ID: 0007804-01       |        | Sample Name: IA-01R |       |       | Temp (°C): 25.50 |       |       |  |
|--------------------------|--------|---------------------|-------|-------|------------------|-------|-------|--|
| Vinyl Chloride           | 13,037 | 1.00                | 0.822 | 10.00 | 5.00             | 0.933 | 0.466 |  |
| trans-1,2-Dichloroethene | 13,037 | 1.00                | 0.447 | 10.00 | 5.00             | 1.72  | 0.859 |  |
| cis-1,2-Dichloroethene   | 13,037 | 1.00                | 0.538 | 10.00 | 5.00             | 1.43  | 0.713 |  |
| Trichloroethene          | 13,037 | 1.00                | 0.335 | 10.00 | 5.00             | 2.29  | 1.14  |  |
| Tetrachloroethene        | 13,037 | 1.00                | 0.416 | 10.00 | 5.00             | 1.84  | 0.921 |  |

| Lab ID: 0007804-02       |        | Sample Name: IA-02R |       |       | Temp (°C): 23.60 |       |       |  |
|--------------------------|--------|---------------------|-------|-------|------------------|-------|-------|--|
| Vinyl Chloride           | 13,049 | 1.00                | 0.820 | 10.00 | 5.00             | 0.935 | 0.467 |  |
| trans-1,2-Dichloroethene | 13,049 | 1.00                | 0.445 | 10.00 | 5.00             | 1.72  | 0.861 |  |
| cis-1,2-Dichloroethene   | 13,049 | 1.00                | 0.536 | 10.00 | 5.00             | 1.43  | 0.714 |  |
| Trichloroethene          | 13,049 | 1.00                | 0.334 | 10.00 | 5.00             | 2.29  | 1.15  |  |
| Tetrachloroethene        | 13,049 | 1.00                | 0.415 | 10.00 | 5.00             | 1.85  | 0.924 |  |

| Lab ID: 0007804-03       |        | Sample Name: OA-01 |       |       | Temp (°C): 25.50 |       |       |  |
|--------------------------|--------|--------------------|-------|-------|------------------|-------|-------|--|
| Vinyl Chloride           | 13,020 | 1.00               | 0.822 | 10.00 | 5.00             | 0.934 | 0.467 |  |
| trans-1,2-Dichloroethene | 13,020 | 1.00               | 0.447 | 10.00 | 5.00             | 1.72  | 0.860 |  |
| cis-1,2-Dichloroethene   | 13,020 | 1.00               | 0.538 | 10.00 | 5.00             | 1.43  | 0.714 |  |
| Trichloroethene          | 13,020 | 1.00               | 0.335 | 10.00 | 5.00             | 2.29  | 1.15  |  |
| Tetrachloroethene        | 13,020 | 1.00               | 0.416 | 10.00 | 5.00             | 1.85  | 0.923 |  |

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### *Laboratory Certification List*

| Certification ID   | Certification No. | Description   | Expires    | Project Required |
|--------------------|-------------------|---|------------|------------------|
| Alaska CS-LAP      | 19-002            | Alaska Department of Environmental Conservation                                 | 12/30/2024 |                  |
| Colorado           | MD010912023       | Colorado Division of Oil and Public Safety                                      | 11/23/2024 |                  |
| DoD-ELAP           | 72690/L22-563     | United States Department of Defense Environmental Laboratory Accreditation      | 11/30/2024 |                  |
| ISO/IEC 17025:2017 | 72690/L22-563     | General Requirements for the Competence of Testing and Calibration Laboratories | 11/30/2024 |                  |
| NEFAP              | 72690/L22-564     | TNI National Environmental Field Activities Program (NEFAP)                     | 11/30/2024 |                  |
| NY-NELAP           | 12097             | New York Department of Health   | 04/01/2025 |                  |
| Utah-NELAP         | MD010912024-15    | Utah Department of Health   | 12/31/2024 |                  |
| Washington State   | C1085             | The State of Washington Department of Ecology                                   | 05/23/2025 |                  |

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### Qualifiers/Notes and Definitions

#### General Definitions:

|           |  |
|-----------|--|
| DF        | Dilution Factor  |
| DL        | Detection Limit  |
| LOD       | Limit of Detection   |
| LOQ       | Limit of Quantitation  |
| NA        | Not Applicable   |
| Q         | Qualifier  |
| RPD       | Relative Percent Difference  |
| RT        | Retention Times in Minutes   |
| RRT       | Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm 0.06$ control limits) |
| VISL      | EPA Vapor Intrusion Screening Level  |
| $3\sigma$ | Uncertainty  |
| ∉         | Compound not on scope of accreditation   |
| +         | values are outside method/contract required QC limits  |
| ∅         | Compound not on scope of accreditation and analyzed with a one-point calibration                     |

#### Sample/Sample Receipt Qualifiers and Notes:

U Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.



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## *Sample Management Records*

